

PRoTECT Webinar: Technology Evaluation Framework

Graeme van Voorthuijsen | Puck van den Brink





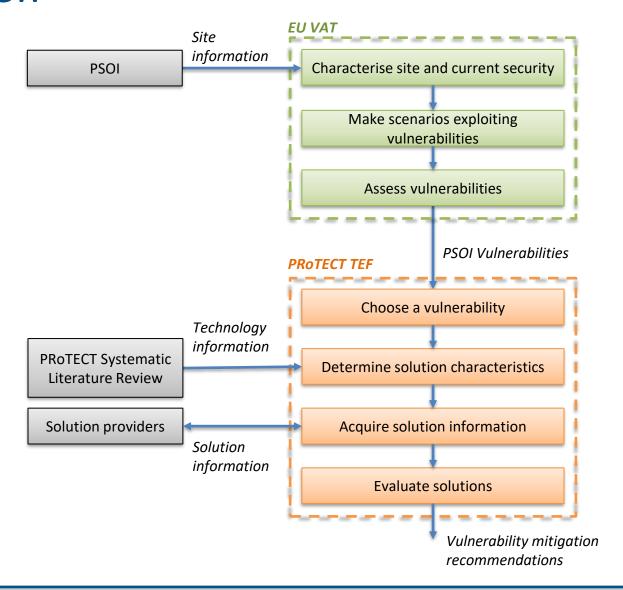
Introduction

- PRoTECT TEF was developed to **evaluate potential technological** solutions for the improvement of public space security regarding the terrorist threat.
- PRoTECT TEF was developed for municipal staff who are responsible for safety and security in public space and their stakeholders, such as municipal police, urban planners, security department or crime prevention unit, event organisers, tourism, transport operators, etc.
- PRoTECT TEF addresses one vulnerability at a time, requiring a vulnerability study to have been carried out beforehand for a specific Public Space of Interest (PSOI) for instance using the EU VAT (Vulnerability Assessment Tool).
- PRoTECT TEF requires the formation of a Team of Experts, including municipality staff, representatives from the police and the event organiser, who in various compositions execute the steps in PRoTECT TEF.
- PRoTECT TEF consists of **8 steps** but it is not necessary to execute all steps for an evaluation (e.g., an evaluation can be based on results from a request for information, a table-top exercise and/or a demonstration).
- Consider PRoTECT TEF as a toolbox pick what you need.



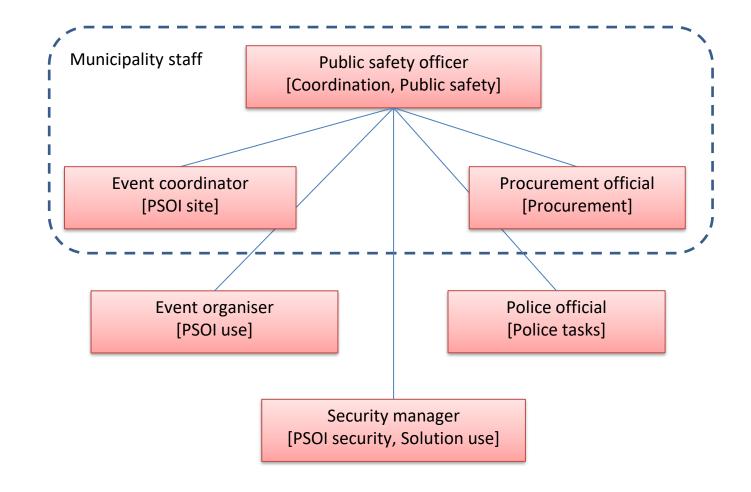
Overview

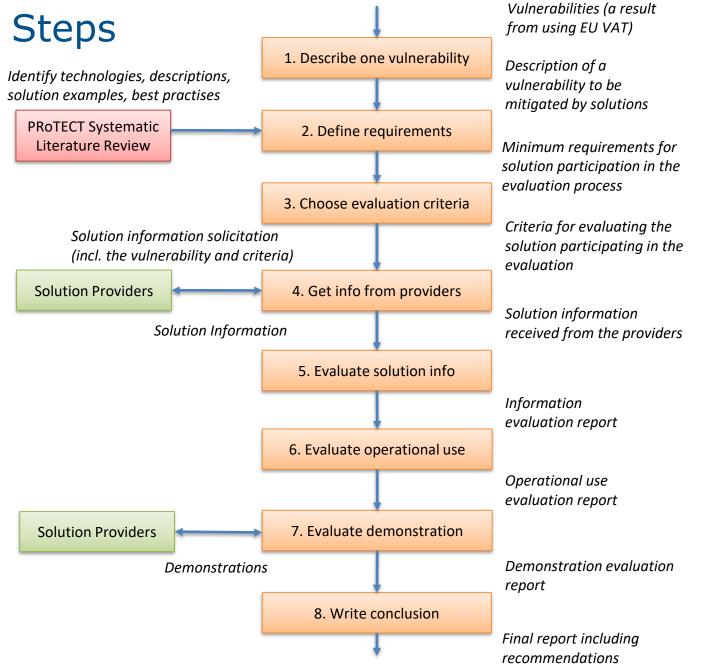






Team of Experts



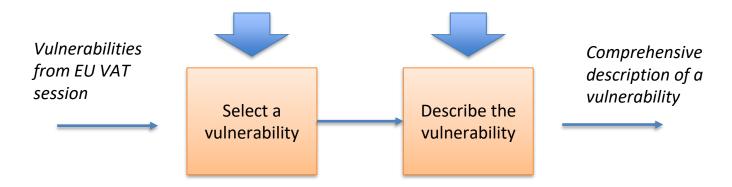






Step 1: Describe the vulnerability

Team expertise:
PSOI use, PSOI sites, PSOI security,
Municipality public safety, Police Tasks



- Purpose: to choose a vulnerability for which a solution is required, and to describe the vulnerability in such a way that apt solutions can be found.
- The choice for a particular vulnerability could be based on the level of risk involved, uncertainties concerning available solutions, etc.
- The description includes the following parts: venue description (location, event type, visitor characterisation, etc), affected capabilities (e.g., event management, access control, attack detection, etc), attack scenario, desired response scenario, dependencies (influences on attack or response outcome).



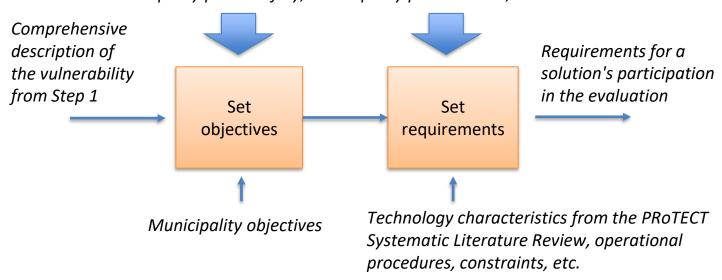


Step 2: Define objectives and requirements

Team expertise:

PSOI use, PSOI sites, PSOI security,

Municipality public safety, Municipality procurement, Police Tasks



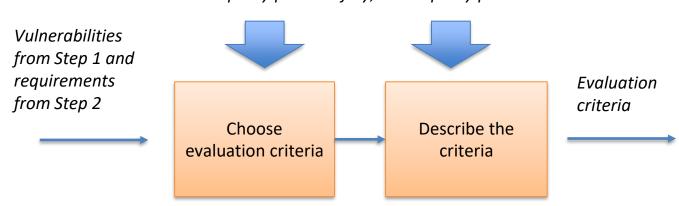
Purpose: determine the general objectives concerning the evaluation (e.g., detect threats earlier, lower response time, etc.) and specify general technology requirements (e.g., regarding operational functionality, interoperability, user operability, compliancy, maintenance, etc) and requirements which must be met by the solution providers (e.g., experience, clearance, capability of giving a demonstration, etc).





Step 3: Choose evaluation criteria

Team expertise:
PSOI security, PSOI security solution use
Municipality public safety, Municipality procurement

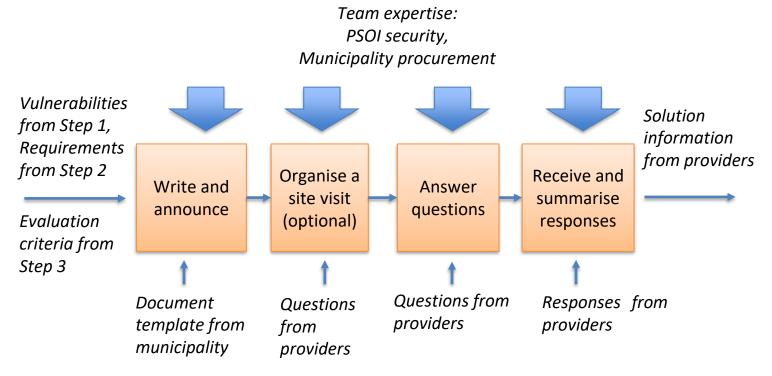


- Purpose: to determine specific criteria for assessing the suitability of a solution in addressing the vulnerability.
- Criteria may concern costs, physical characteristics, compliancy, performance, operability, interfacing, training, maturity, etc.
- Attention must be paid to criteria quality (e.g., non-redundant, suitable for all solutions considered, clear, measurable) and applicability (e.g., relevant to the vulnerability, in line with the goals and requirements).
- Generally, choosing 5 to 10 criteria should suffice.





Step 4: Gather solution information

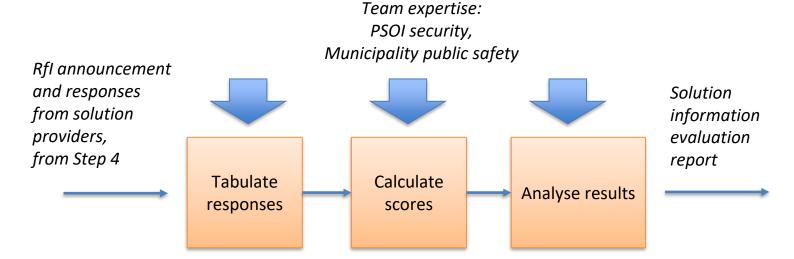


- Purpose: to conduct a Request for Information (RfI) for gathering information on solutions from solution providers.
- The RfI process includes tasks such as writing an RfI announcement, conducting a site visit (optional), answering questions from providers, and summarizing the responses.



Step 5: Perform solution information evaluation





- Purpose: to evaluate the solutions based on information received from the providers.
- The evaluation is carried out using a multi-criteria analysis (MCA) method which includes tasks such as tabulating the information, determining criteria threshold values, assigning weights (optional), calculating scores, analyzing the scores, formulating conclusions.
- This step includes an example.

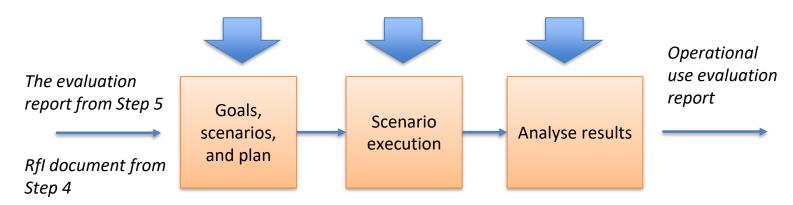




Step 6: Perform operational use evaluation

Team expertise:

PSOI use, PSOI sites, PSOI security, PSOI security solution use Municipality public safety, Police Tasks



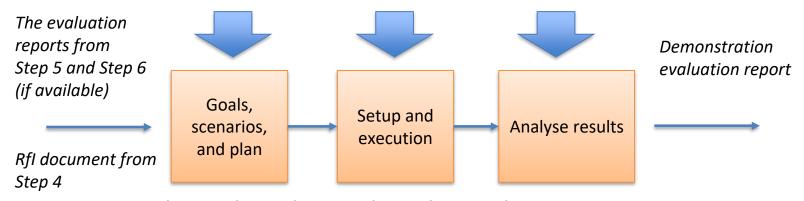
- Purpose: to evaluate the solutions based on an operational table-top exercise.
- The table-top exercise process includes tasks such as setting goals, devising operational scenarios for the exercise, determining the players, planning the exercise, execution of the scenarios by the players, analyzing and documenting the results.





Step 7: Perform demonstration

Team expertise:
PSOI use, PSOI sites, PSOI security, PSOI security solution use
Municipality public safety, Police Tasks



- Purpose: to evaluate the solutions based on a demonstration.
- The demonstration process includes tasks such as setting goals, devising operational scenarios for the demonstration, planning the demonstration with the solution provider, execution of the scenarios in the demonstration by the provider, analyzing and documenting the results.



Step 8: Analyse results and write report





- Purpose: to form a conclusion regarding the suitability of a solution based on the results of the evaluations carried out.
- This step produces a final report in which the following subjects are covered:
 a description of the vulnerability, documentation of each of the TEF steps
 carried out (those involved, actions taken, etc), analysis considerations,
 assumptions, etc., degree to which goals were met, conclusions and
 recommendations, next steps (e.g., a procurement process).





PROTECT TEF Results

- PRoTECT TEF can lead to these evaluation reports:
 - The solution information evaluation (Step 5) evaluation of printed matter on the solution (RfI results)
 - The operational use evaluation, if executed (Step 6) evaluation of enacting hypothetical operational scenarios based on the use of the solution (tabletop session results)
 - The demonstration evaluation, if executed (Step 7) evaluation of a live demonstration of the solution (demonstration results)
- Each evaluation report generally describes evaluation goals, evaluation criteria, analysis results, conclusions and recommendations.
- PRoTECT TEF leads to a final report which discusses the results of the evaluation reports produced, including the degree to which the objectives (set in Step 2) concerning vulnerability mitigation have been met, and any recommendations concerning the acquisition or future use of the solution(s) for the municipality.



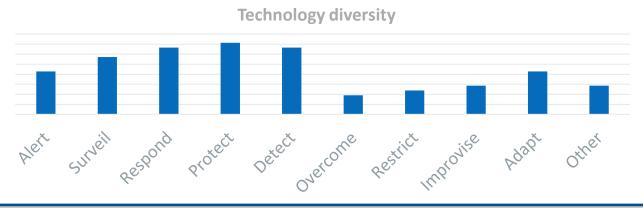


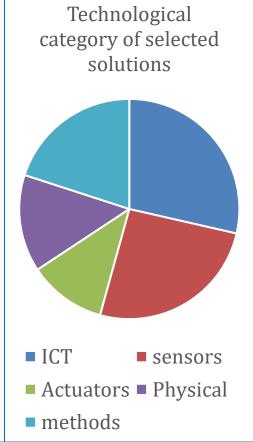
PRoTECT TEF use summary

 For practical reasons, one RfI process was organised for all 5 municipalities involved in PRoTECT. Each municipality contributed vulnerabilities for which solutions were solicited from providers.

• In total, the RfI process resulted in 32 unique solutions being offered for mitigating various vulnerabilities of the municipalities' PSOIs.

 The solutions were evaluated using a method derived from the ProTECT TEF, which resulted in 23 candidates being selected for technology demonstrations organised by each of the 5 municipalities.







Thank you!



There is an opportunity to ask questions after the last presentation in this webinar.

Contact information:

Puck van den Brink puck.vandenbrink@tno.nl

Graeme van Voorthuijsen

graeme.vanvoorthuijsen@tno.nl





End of presentation

