

11 OCTOBER 2016

End-user driven
DEmo for cbrNe

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Chemical Demonstration Evaluation

A European Commission Seventh Framework Programme

This document is produced by the EDEN consortium and the research leading to these results has received funding from the European Community's Seventh Framework programme (FP7/2012-2016) under grant agreement no 313077



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EVALUATION SUMMARY



- EVALUATION OBJECTIVES :
 - 1: **Resilience** Prediction for EDEN Solutions
 - 2: Tool **Usability** Assessment
 - 3: Cost **Benefit** Analysis

- APPROACH TO OBJECTIVES:
 - 1: A **Resilience Matrix** Tool developed in Project EDEN was used by **Consortium Teams** in a phased approach to provide quantitative assessments: Baseline, Prediction before Demo, Demo Deployed toolbox

 - 2: Defined **Questionnaires** provided to **End Users/Observers** after seeing/using the tools in the Demonstrations used to formulate Quantitative scores for tools

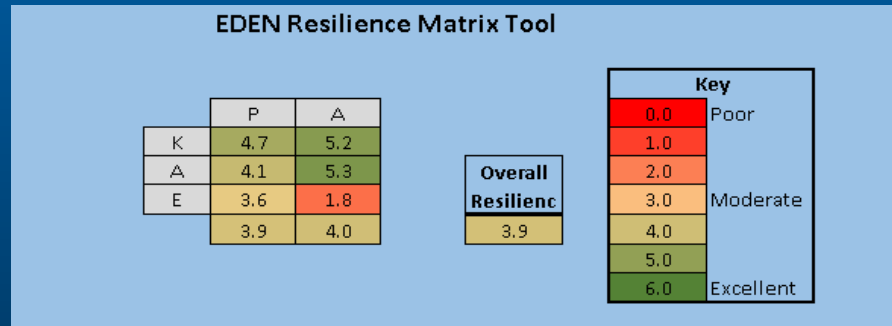
 - 3: Defined **Question** assessment from **End Users/Focus Groups** after seeing/using the tools in the Demonstrations used to formulate Qualitative scores for tool benefit
 - Large Scale Demonstration changed – impacted results.

EDEN EVALUATION – RESILIENCE

- **Baseline System Resilience** (Resilience of Existing System)
 - Assessment identified a 'good to excellent' resilience score of 5.3 due to well trained staff, robust procedures and a well understood toolbox

- **Predicted System Resilience** (Resilience of expected Toolbox Solution)
 - Assessment identified a 'good to excellent' resilience score of 5.3 but with increased capability

- **Deployed System Resilience** (Resilience of Toolbox used in Demonstration)



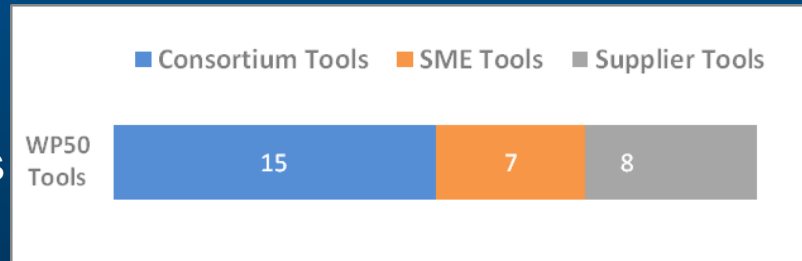
- Assessment determined a score of 3.9 due to limited experience of using the toolbox, limited understanding of failure modes, and limited understanding of possible adaptability

EDEN EVALUATION – GAPS AND TOOLS

- 301 Gaps Identified in WP20
 - 90 Gaps Addressed in EDEN Demos
 - 58 Gaps Addressed in WP50
 - 37 gaps closed or reduced (64%)
 - 34 Priority gaps selected
 - 23 closed or reduced (68%)

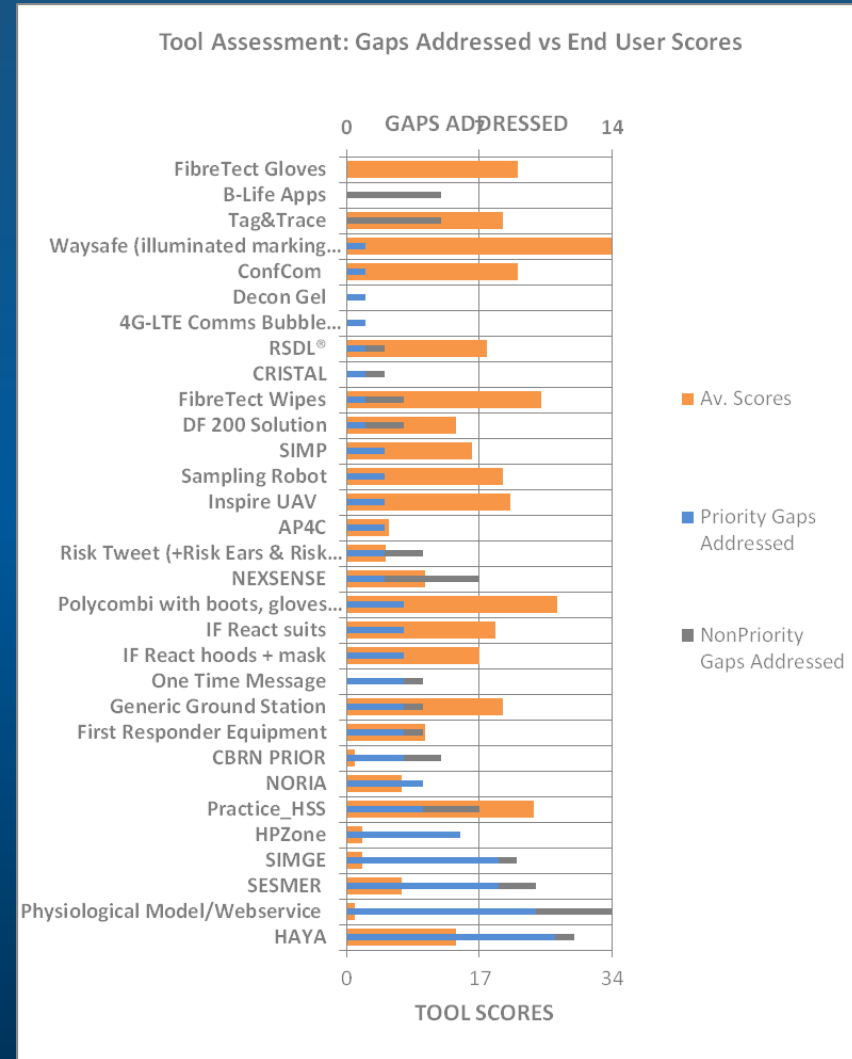
Total Number of Gaps identified by EDEN WP20	:	301
Total Number of Gaps identified as 'Priority'	:	64 (21%)
Number of Priority Gaps Addressed by WP50	:	34 (53%)
Addressed Priority Gaps - Closed	:	9 (14%)
Addressed Priority Gaps - Reduced	:	14 (22%)
Addressed Priority Gaps - Unchanged	:	11 (17%)
Number of Non-Priority Gaps Addressed in WP50	:	24 (8%)
Addressed Non-Priority Gaps - Closed	:	5 (21%)
Addressed Non-Priority Gaps - Reduced	:	9 (38%)
Addressed Non-Priority Gaps - Unchanged	:	10 (42%)
Total Number of Gaps Addressed by WP50	:	58 (19%)

- 106 Tools used in EDEN Demonstrations
 - 30 tools used to address the WP50 gaps



EDEN EVALUATION – END USER ENGAGEMENT

- Tool Usability scores derived from **86 completed questionnaires**
 - Average End User feedback scores identified for each tool used
- Results
 - Reviewers can identify tools which cover highest number of gaps vs average End User feedback scores
 - 4 ‘Highest Scoring tools’:
 - **WaySafe, PolyCombi PPE, Fibretect Wipes, PRATICE HSS**
 - 4 ‘Tools of Interest’ (gaps addressed):
 - **HAYA, Phys. Model/Webservice, SESMER, SIMGE**

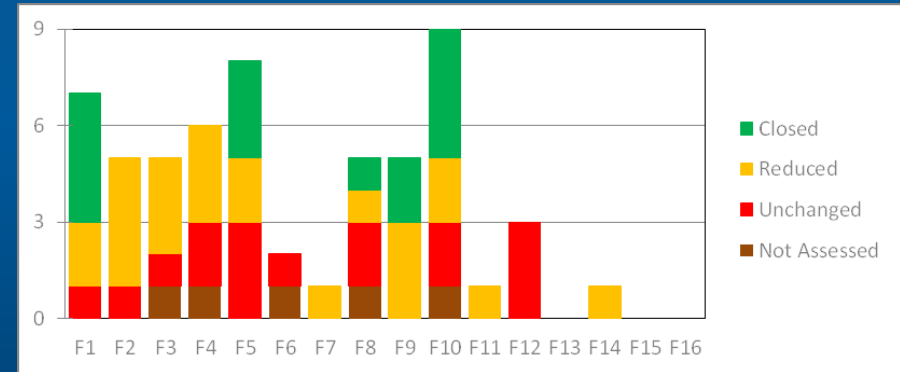
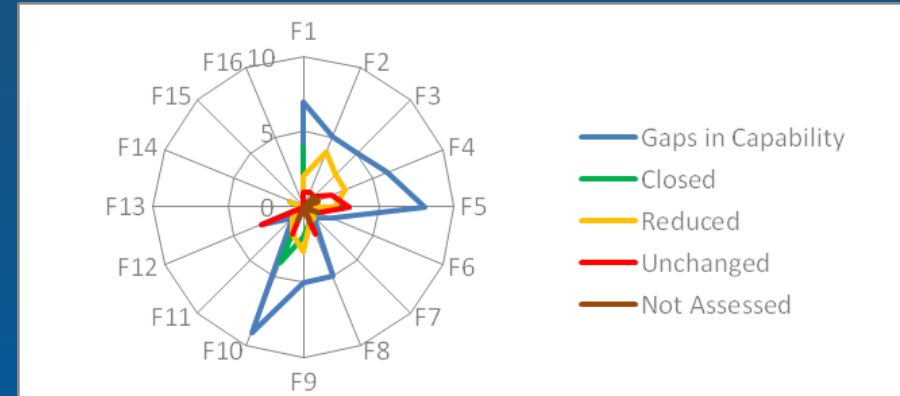


EDEN EVALUATION – BENEFIT ASSESSMENT

- 13 Functional areas tested in demonstrations

Functional areas assessed in WP50

F1	Risk assessment and reduction
F2	Protection
F3	Exercise, simulation and training
F4	Search and Detection
F5	Identification and authentication
F6	Situation awareness & assessment
F7	Intelligence
F8	Intervention and Neutralization
F9	Communication (contents)
F10	Crisis Operations / Management
F11	Search, rescue and evacuation
F12	Decontamination and de-pollution
F14	Psychological and Social aspects



- Focus Group assessment determined most improvement in:
 - Communications,
- However, several areas such as Decontamination and de-polution need new innovative tools to improve

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End User Driven Demonstrator for CBRNe (313077)

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Project co-funded by the European Commission within the
Seventh Framework Programme (2012-2016)



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