EDEN CBRNE INNOVATION FAIR 2016

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End-user driven DEmo for cbrNe

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Food Demonstration Evaluation

A European Commission Seventh Framework Programme

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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.
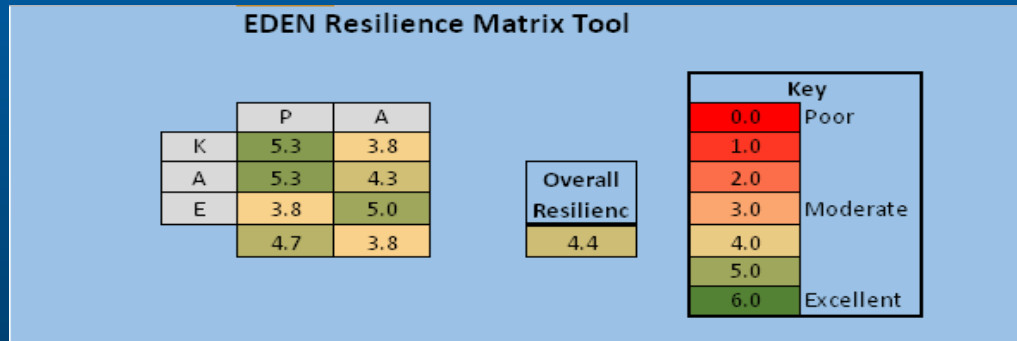   - Responses used to formulate Quantitative scores for tools

  - 3: Defined Question assessment from End Users/Focus Groups after seeing/using the tools in the Demonstrations
    - Responses used to formulate Qualitative scores for tool benefit

EDEN EVALUATION – RESILIENCE

- Baseline System Resilience (Resilience of Existing System)
  - Assessment identified 'Poor' resilience due to limited technical capability

- Predicted System Resilience (Resilience of expected Toolbox Solution)
  - Assessment identified 'Moderate' possible via a workable Toolbox but requiring user experience

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

EDEN Resilience Matrix Tool

	P	A
K	5.3	3.8
A	5.3	4.3
E	3.8	5.0
	4.7	3.8

Overall Resilienc
4.4

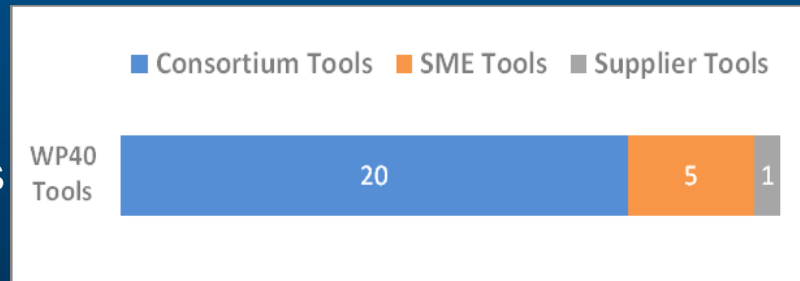| Key	
0.0	Poor
1.0	
2.0	
3.0	Moderate
4.0	
5.0	
6.0	Excellent

- Assessment determined a score of 4.4
- A score of >4 to ≤6 (maximum) indicates a system with <u>good to excellent</u> resilience.

EDEN EVALUATION – GAPS AND TOOLS

- 301 Gaps Identified in WP20
  - 90 Gaps Addressed in EDEN Demos

    - 17 Gaps Addressed in WP40
      - 14 gaps closed or reduced (82%)

      - 13 Priority gaps selected
   - 10 closed or reduced (77%)

Total Number of Gaps identified by EDEN WP20	:	301
Total Number of Gaps identified as 'Priority'	:	64 (21%)
Number of Priority Gaps Addressed by WP40	:	13 (20%)
Addressed Priority Gaps - Closed :		7 (11%)
Addressed Priority Gaps - Reduced :		3 (5%)
Addressed Priority Gaps - Unchanged :		3 (5%)
Number of Non-Priority Gaps Addressed in WP40	:	4 (1%)
Addressed Non-Priority Gaps - Closed :		2 (50%)
Addressed Non-Priority Gaps - Reduced :		2 (50%)
Addressed Non-Priority Gaps - Unchanged :		0 (0%)
Total Number of Gaps Addressed by WP40	:	17 (6%)

- 106 Tools used in EDEN Demonstrations
  - 26 tools used to address the WP40 gaps

Consortium Tools ■ **SME Tools** ■ **Supplier Tools**

WP40 Tools: 20 | 5 | 1

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EDEN EVALUATION – END USER ENGAGEMENT

- Tool Usability scores derived from 112 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':

    - BC-Probe, AREVE, Coriolis Recon, HSI

  - 4 'Tools of Interest' (gaps addressed):

    - Track and Trace, BC-Probe, Fochade integration, NTX2000


Tool Assessment: Gaps Addressed vs End User Scores
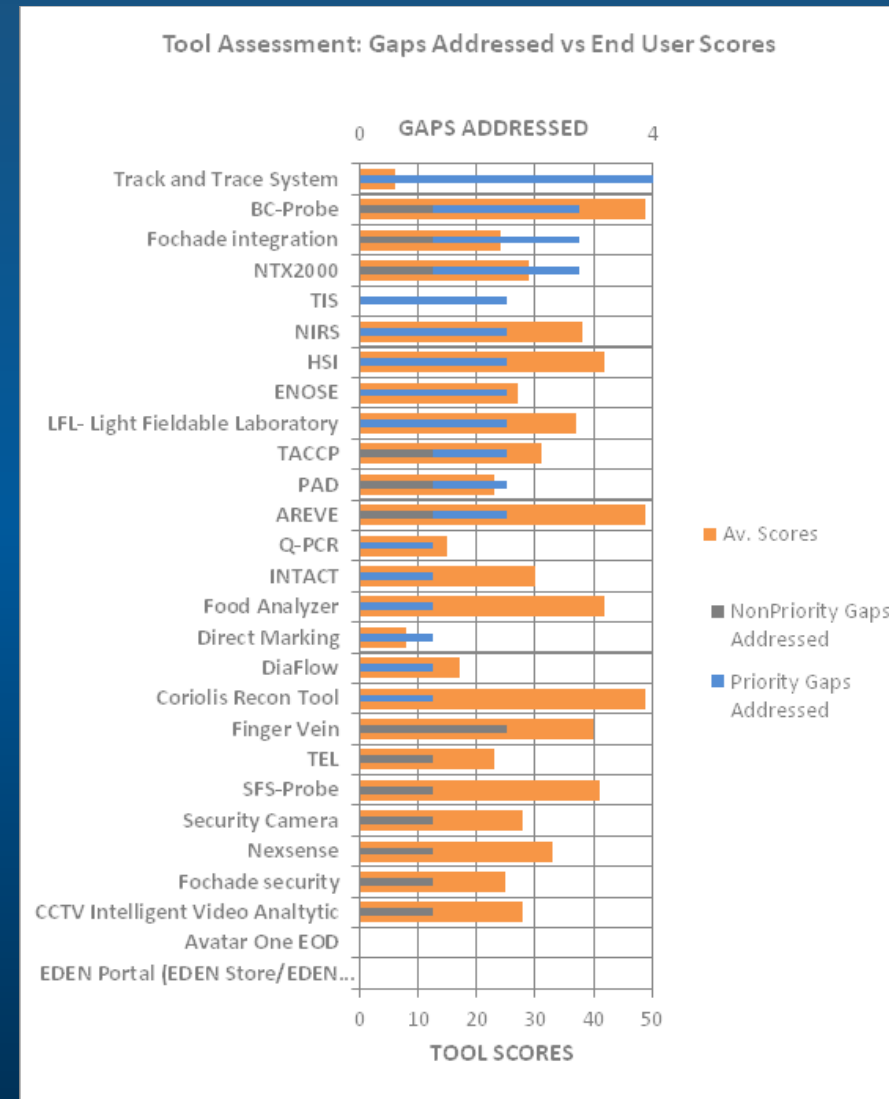
EDEN EVALUATION – BENEFIT ASSESSMENT

- 4 **Functional areas** tested in demonstrations

Functional areas assessed in WP40
F1   Risk assessment and reduction
F4   Search and Detection
F7   Intelligence
F10   Crisis Operations / Management

- **Focus Group** assessment determined **improvements** in all functional areas

  - Most improvement in **Search and Detection**

  - Priority gap in '**Intelligence**' closed
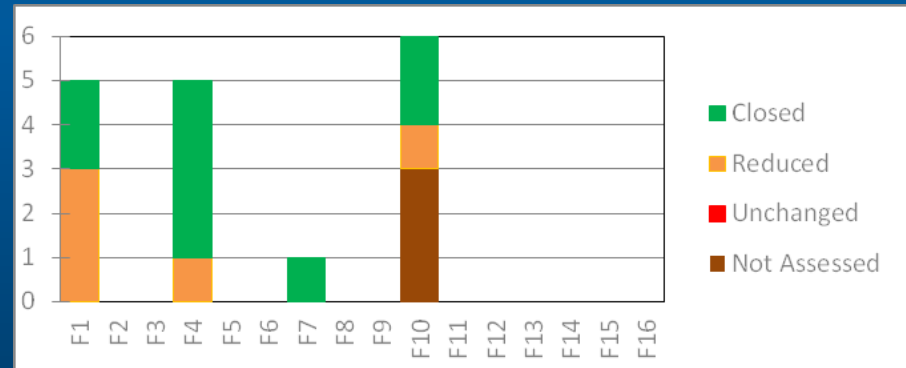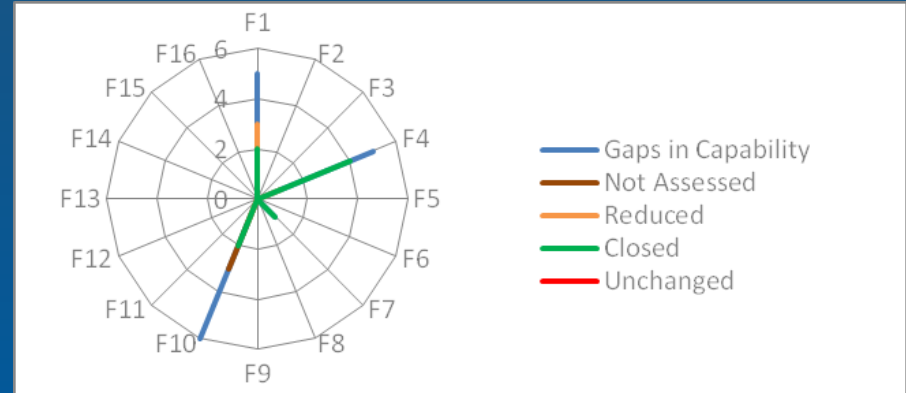
- However:

  - Further **work needed** to improve **Crisis Operations and Management** through improved protocols, operating procedures and regulation

CONTACTS AND EDEN CONSORTIUM

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End User Driven Demonstrator for CBRNe (313077)

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