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End-user driven
DEmo for cbrNe

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Radiological 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

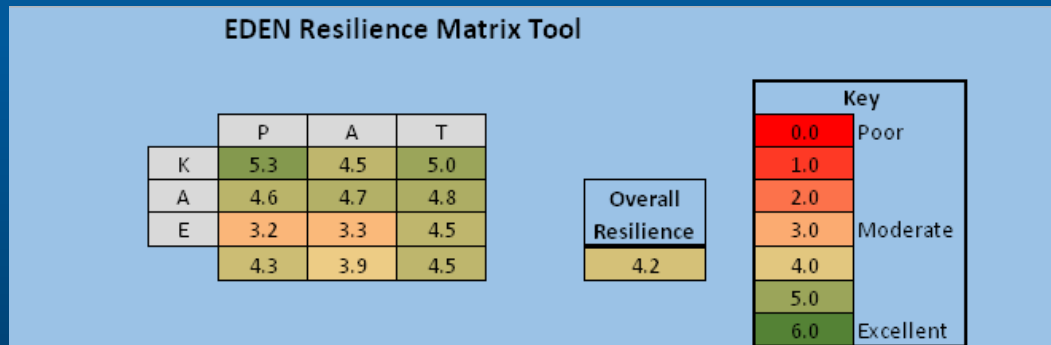
- APPROACH TO OBJECTIVES:
 - 1: A **Resilience Matrix** Tool developed in Project EDEN was used by **Consortium Teams** in a phased approach to provide quantitative assessments: Baseline, Prediction before Demo, Demo Deployed toolbox

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

 - 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

EDEN EVALUATION – RESILIENCE

- **Baseline System Resilience** (Resilience of Existing System)
 - A score of 4.4 ('good to excellent') was determined due to well trained staff
- **Predicted System Resilience** (Resilience of expected Toolbox Solution)
 - Resilience expected to increase to 4.7 also with increased capability
- **Deployed System Resilience** (Resilience of Toolbox used in Demonstration)



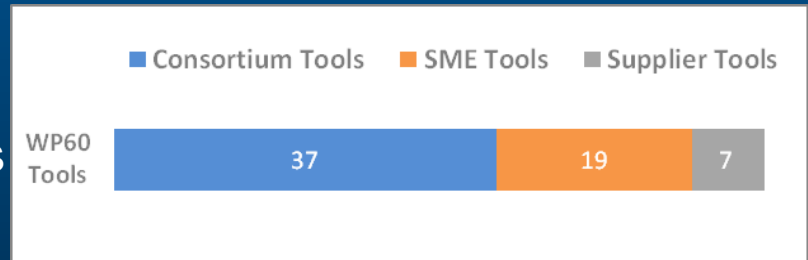
- Assessment determined a score of 4.2, lower than the Baseline and Prediction
 - Efforts devoted to tool integration and action at crisis site; not enough training and experience for Crisis Managers use of the information tools

EDEN EVALUATION – GAPS AND TOOLS

- 301 Gaps Identified in WP20
 - 90 Gaps Addressed in EDEN Demos
 - 40 Gaps Addressed in WP60
 - 31 gaps closed or reduced (78%)
 - 29 Priority gaps selected
 - 24 closed or reduced (83%)

Total Number of Gaps identified by EDEN WP20	:	301	
Total Number of Gaps identified as 'Priority'	:	64	(21%)
Number of Priority Gaps Addressed by WP60	:	29	(45%)
Addressed Priority Gaps - Closed	:	18	(28%)
Addressed Priority Gaps - Reduced	:	6	(9%)
Addressed Priority Gaps - Unchanged	:	5	(8%)
Number of Non-Priority Gaps Addressed in WP60	:	11	(4%)
Addressed Non-Priority Gaps - Closed	:	5	(45%)
Addressed Non-Priority Gaps - Reduced	:	2	(18%)
Addressed Non-Priority Gaps - Unchanged	:	4	(36%)
Total Number of Gaps Addressed by WP60	:	40	(13%)

- 106 Tools used in EDEN Demonstrations
 - 63 tools used to address the WP60 gaps



EDEN EVALUATION – END USER ENGAGEMENT

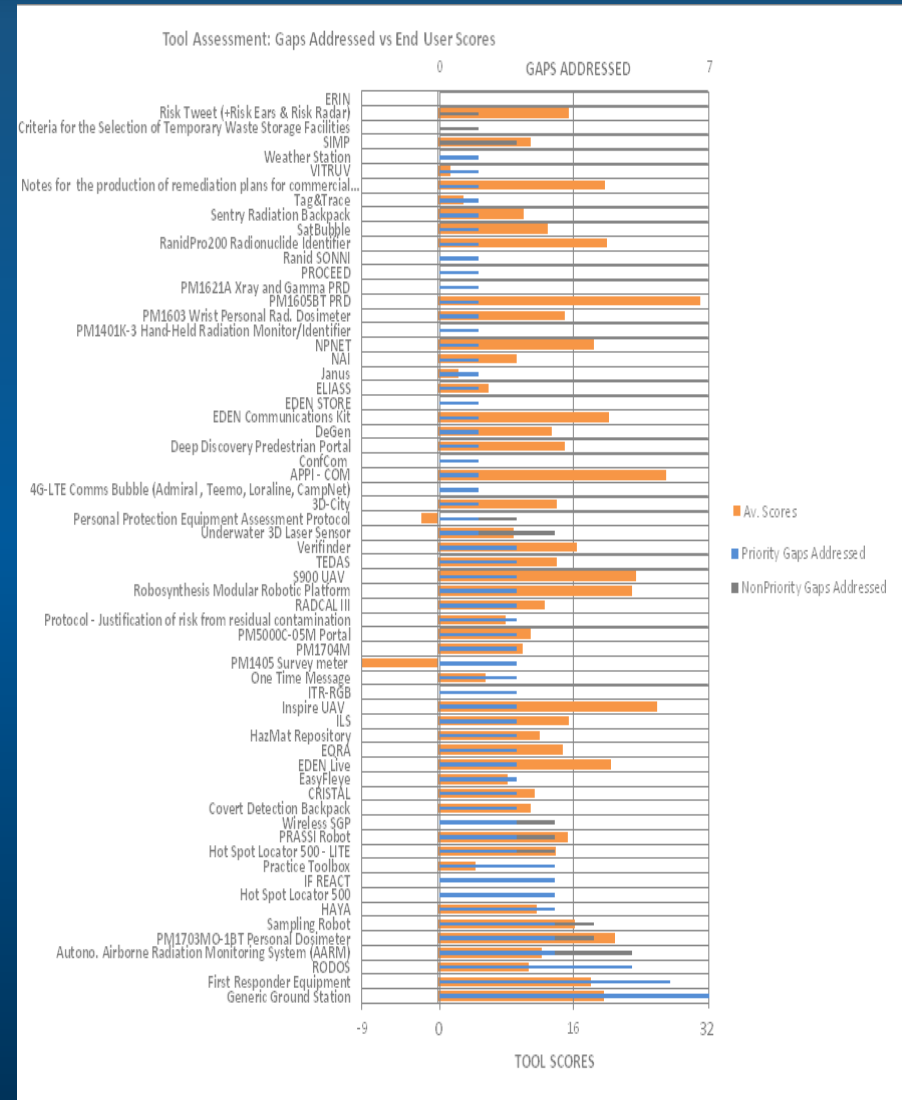


- Tool Usability scores derived from **390 completed questionnaires**
 - Average End User feedback scores identified for each tool used

- Results
 - Reviewers can identify tools which cover highest number of gaps vs average End User feedback scores

 - 4 'Highest Scoring tools':
 - **PM1605BT Dosimeter,**
 - **Appi-Comm, UAV Drones,**
 - **Robosynthesis Robotic Platform**

 - 4 'Tools of Interest' (gaps addressed):
 - **GGs, First Responder Kit,**
 - **JRODOS, AARM**

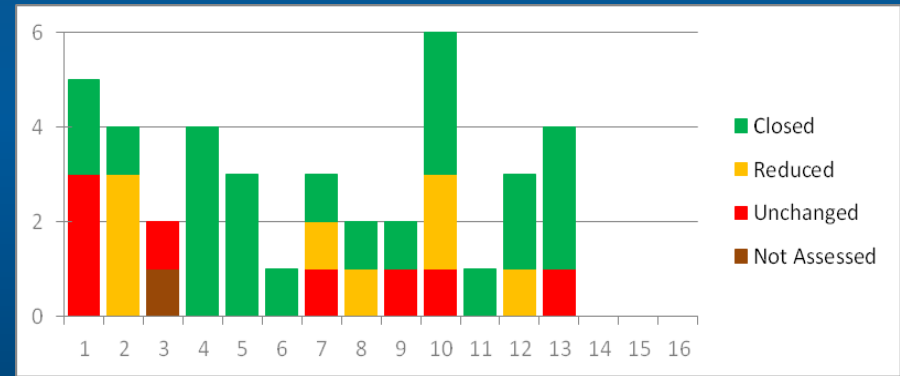
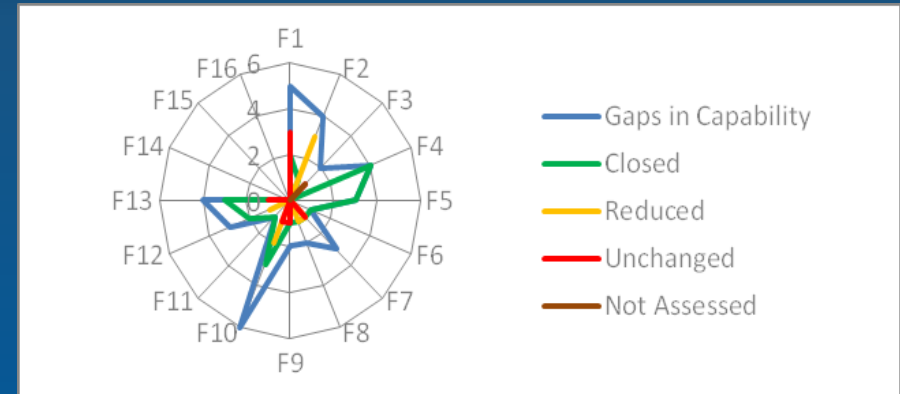


EDEN EVALUATION – BENEFIT ASSESSMENT

- 13 Functional areas tested in demonstrations

Functional areas assessed in WP60

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
F13	Support



- Focus Group assessment determined:
 - most improvement in Search and Detection
 - all priority gaps closed in Identification and authentication, Situation awareness & assessment and Search, rescue and evacuation
- However, Risk Assessment and Reduction and Exercise, simulation and training need to improve access to past experience and population management

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End User Driven Demonstrator for CBRNe (313077)

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