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End-user driven
DEmo for cbrNe

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Needs and Gaps Identified in the Radiological and Nuclear Demonstrations

A European Commission Seventh Framework Programme

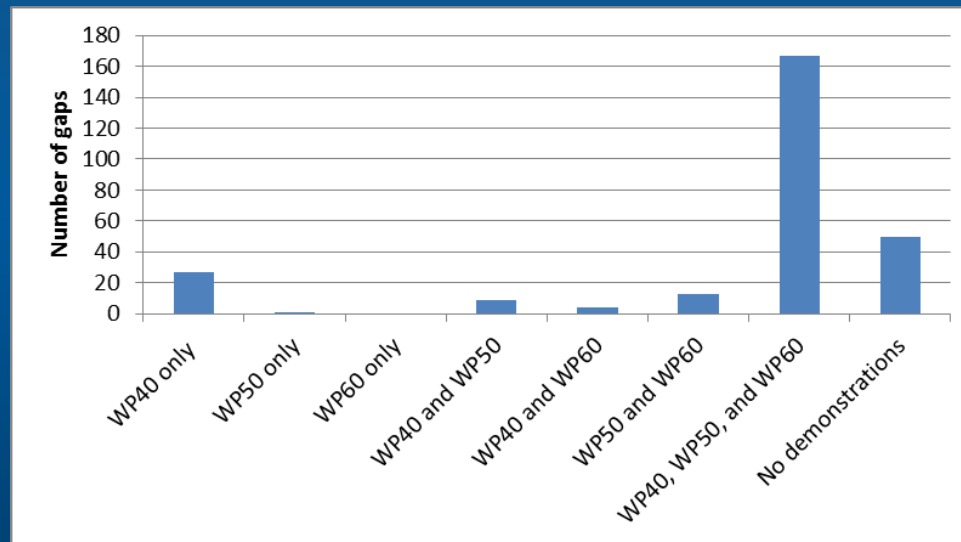
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In general about needs and gaps

- Some gaps & needs specific for WP40 (Food), 50 (Multi-Chemical) or 60 (Radiological), some overlapping with other demonstrations (common gaps)
- The gaps were combined with corresponding needs, requirements and tools

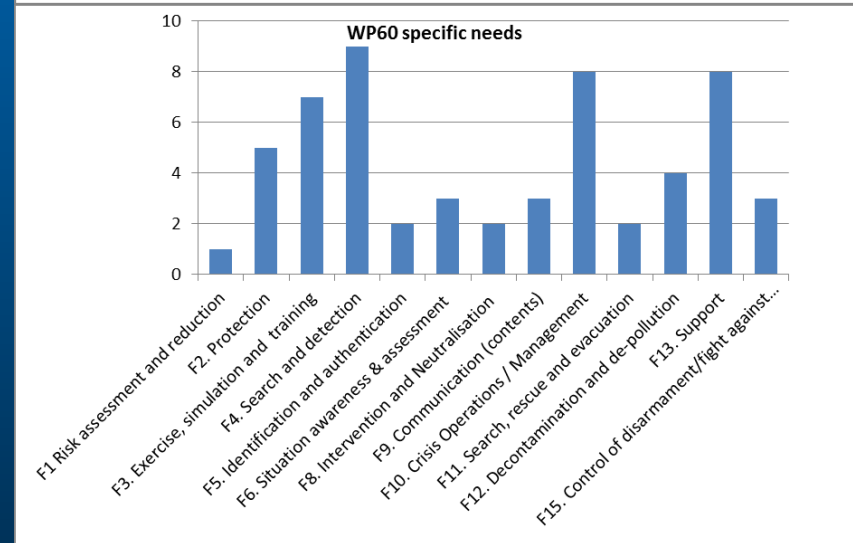
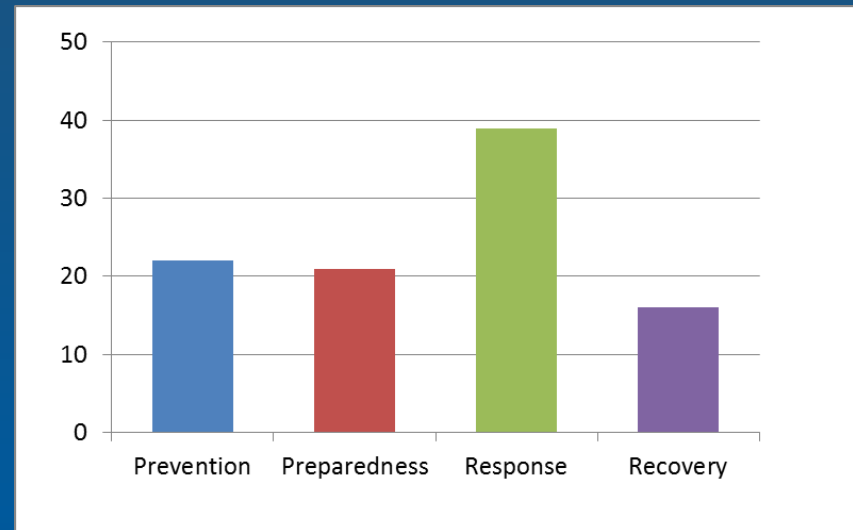


Security cycle phase	Common gaps	C - C/Med	B - B/Med	RN - RN/Med	Total
Prevention	116	6	4	9	135
Preparation	117	5	3	3	128
Response	184	4	4	11	203
Recovery	104	4	0	6	110

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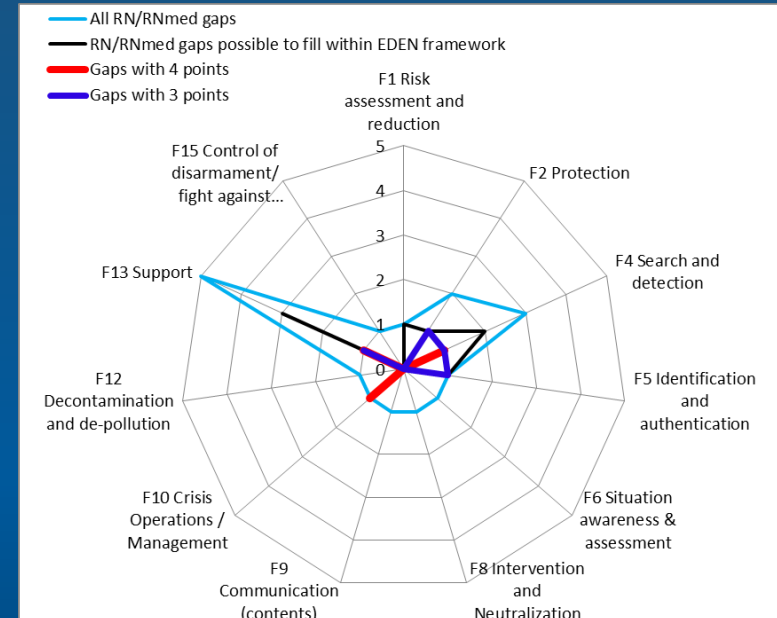
Needs identified for the RN demonstrations

- Main needs:
 - **Control measures** for RN materials
 - Radiation resistant **equipment**
 - **Vehicles** for radiation measurements or for handling of the RN sources.
 - **Identification** and **treatment** of contaminated people
 - Converging **strategies** and **procedures** for RN across borders
 - Trained personnel and effective tools
 - Advanced **instruments** for radioactivity measurements (detection and identification)
 - **Education** and **training** tools
 - Real-time **modelling systems** for the prediction of dispersion



Gaps identified for the RN demonstrations

- Main RN specific gaps:
 - **Radiation resistant equipment** which can work properly in environments with elevated radiation levels
 - **Effective identification** of affected people contaminated with radioactive material and suffering from radiation sickness
 - **Accurate and instantaneous detection equipment** and technologies for the search, detection and identification of RN materials
 - **Availability of cars with mobile detection systems** which are also capable of covert search for RN material



Gaps addressed in the RN demonstrations



- 29 priority gaps and 11 non-priority gaps addressed
 - **Capacity assessment** of infrastructures, equipment and drug availability
 - **Risk and vulnerability assessments** of all major population areas
 - **PPE:** Standardised, multifunctional, user-friendly
 - **Equipment:** estimation of contamination, training, detection, sampling, databases, situation awareness, decontamination, radiation resistant
 - **Forensic activities** in the hot zone.
 - **Modelling capabilities** to perform predictions of spread and health effects
 - **Communication** between agencies, of classified material and to the public. Reliable lines of communication

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End User Driven Demonstrator for CBRNe (313077)

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