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End-user driven
DEmo for cbrNe

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Needs and Gaps Identified for the Chemical Demonstrations

A European Commission Seventh Framework Programme

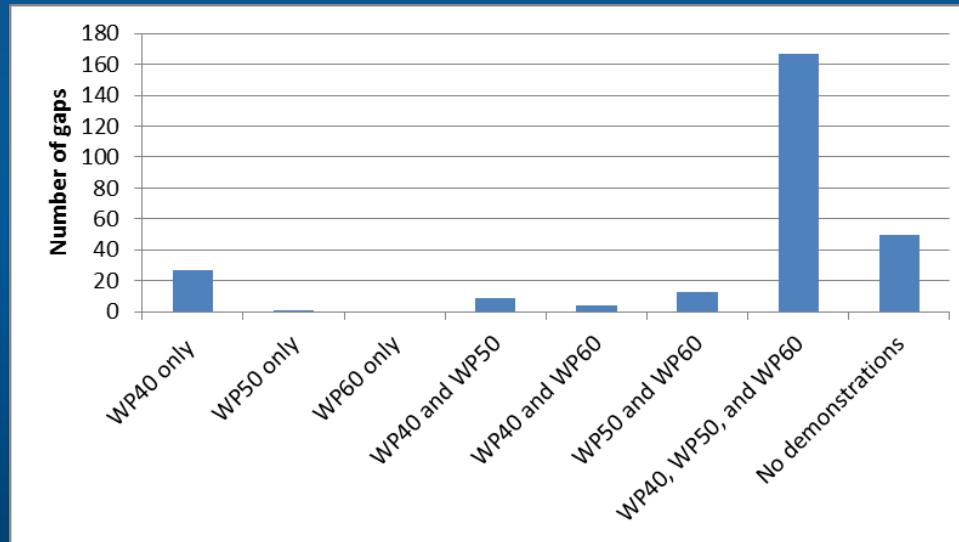
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In general about needs and gaps

- 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

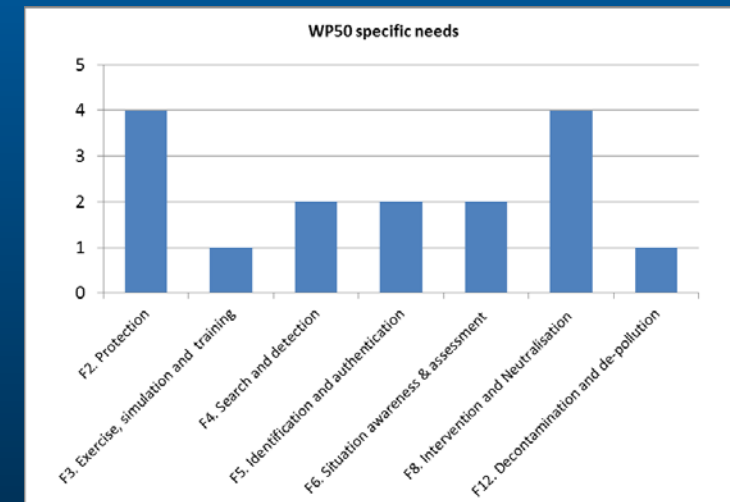
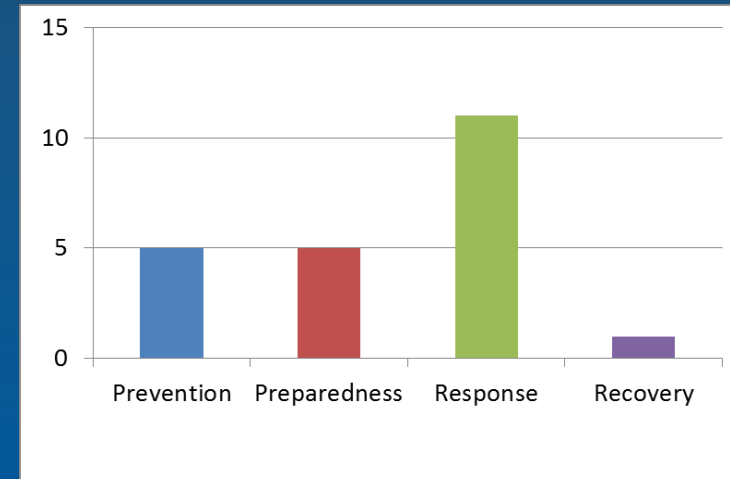


Security cycle phase	Common gaps	C - C/Med	B - B/Med	RN - RN/Med	Total
Prevention	116	6	4	9	135
Preparation	117	5	3	3	128
Response	184	4	4	11	203
Recovery	104	4	0	6	114

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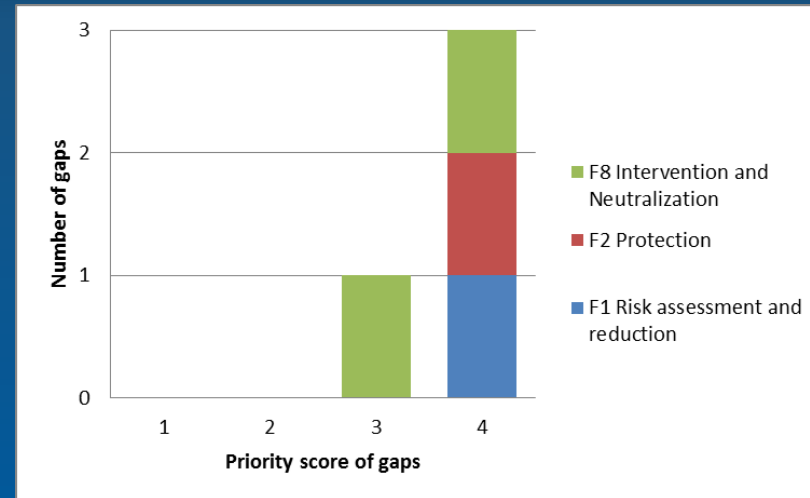
Needs identified for the chemical demonstrations

- Main needs:
 - Secure **areas** and **people**
 - **Decontamination**: Training, methods, tools
 - Sensors
 - **Detection and identification**
 - **Sampling** and transport of samples
 - Monitoring and control of public spaces
 - **Antidotes**



Gaps identified for the chemical demonstrations

- Insufficient **facilities and mobile units** for handling emergency situations at both hospitals and at a site of emergency
- Too little **knowledge** on use of biomarkers for exposure
- Equipment and antidote availability
- **Detection** and safe **sampling**
- Standardised and/or universal multifunctional **PPE**, that is not heavy and bulky
 - Standard Operation Procedures (SOPs) for using PPE
 - Respiratory protections
 - Training in full PPE



Gaps addressed in the chemical demonstrations

- ❖ 34 Priority Gaps, 24 non-priority gaps
- ❖ Adequate and user friendly **personal protection equipment (PPE)**.
- ❖ Coordinated **medical response and treatment delivery**
- ❖ Improved real time **threat assessment**
- ❖ Improved **decontamination**
- ❖ Improved **decision support systems**
- ❖ Capacity assessment of **infrastructures** involved in emergency response
- ❖ Improved **detection and safe sampling**
- ❖ **Communication** routines for CBRN-alerts
- ❖ **Link** end users experts and to share expertise
- ❖ Search and rescue (SAR): Robust tag and trace system.



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End User Driven Demonstrator for CBRNe (313077)

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