

[PRACTICE]

D5.8 TOOLBOX IMPLEMENTATION PLAN

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Summary Work Package 5

The overall aim of the project “Preparedness and Resilience Against CBRN Terrorism using Integrated Concepts and Equipment” (PRACTICE) is to improve the ability to respond to and recover from a Chemical (C), Biological (B), Radiological (R) or Nuclear (N) incident. The objective of the project is to create an integrated European approach to a CBRN crisis – i.e. a European Integrated CBRN Response System. This will be achieved through the development of an improved system of tools, methods and procedures that is going to provide EU with a capability to carry out a truly integrated and coordinated operational reaction following the occurrence of a CBRN crisis, whether it is caused by a terrorist act or an accident.

The objectives of WP5 are to develop, integrate and test a complete toolbox for first responders, decision makers and the public, including innovative components developed during the project to provide an improved and integrated preparedness and response to CBRN events.

The tools will be organized in 6 categories:

1. Recommendations
2. Standards
3. Protocols / procedures
4. Equipment and systems (eventually simulated): hardware, software, with performances, Technology Readiness Levels (TRLs), validation/certification status
5. Simulated environment (with 3D databases)
6. Real equipment and system emulation capabilities.

These tools will fulfill functions as defined in WP3, organized in line with the ESRAB/Staccato taxonomy functions, completed and detailed when needed for PRACTICE. The toolbox should be considered as living system gathering “bricks” into an integrated solution to manage a CBRN crisis. It will include actual tools and equipment and ICT simulated environments including hardware and software. This will allow plugging and playing new components and guarantee their interoperability.

The toolbox will be developed and integrated in two steps:

- A V0 version integrating in an innovative way existing validated capabilities (fed from WP 2 and WP 3) i.e., tools, methods and procedures that will be put together into an information system, with specified standard interfaces.
- A V1 version integrating innovative tools, methods and procedures and supporting future standards to improve interoperability and consistency without impeding the existing operational systems.

Developing V0 and new CBR tools for V1 will be an iterative process with all the stakeholders in the loop. Focus will be put on specifying simple interfaces for any supplier to describe and present its “bricks” in order to “index / reference” them in our PRACTICE Toolbox Information System. Any new tool that satisfies the “standards” interfaces should be easily added to build new solutions (“buildings”).

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1. Executive Summary

This document describes the plan to develop the toolbox (the Implementation Plan), that is to say the process we will follow to develop or implement the PRACTICE toolbox that will be demonstrated through various validation exercises. The toolbox will be developed as part of WP5 (Work Package 5) in the FP7 PRACTICE project.

Work package 5, responsible for the implementation of the toolbox, is **linked to the various other WPs**. The development is strongly constrained on one side by the concepts' definition developed in WP4 specifying what should be implemented and on the other side the validation exercises planned by WP6 for which the toolbox should be developed.

To handle the timing of the WP4 it is necessary to perform at the same time the development and the concept definition. Therefore only an iterative approach can support this. To handle the different timing of the WP6 exercises while providing the best toolbox to be tested and evaluated, it is also necessary to adopt an iterative approach for the development/ implementation.

The implementation of the toolbox is therefore **an iterative process**. This process will deliver several versions of the toolbox in order to fulfil the milestones and align with the other WPs, especially the WP6 dealing with the validation exercises and evaluations.

The implementation is done through various prototypes along the following logic:

1. a **proof of concept prototype** that is developed "in house" to validate the mechanisms and the specificities of the approach,
2. an **initial "operational" implementation (V0)** that will be filled with effective information allowing to test with "table top" simulation its potential. This will be done through a specific concrete scenario (the one for the first Validation Exercise in UK).
3. from the feedbacks further interactive development should follow
4. the various **iterations of this V0 toolbox** will be then tested with real validation exercises
5. finally a **V1** will be developed also iteratively and tested in real validation exercises

The Toolbox itself encompasses both the FRAMEWORK and the CONTENT.

The FRAMEWORK is basically a CMS (Content Management System) with specific features that should be improved from V0 to V1. The CONTENT will contain mainly existing Tools in V0 and will be complemented in V1 with new and other existing Tools.