



Driving Innovation in Crisis Management
for European Resilience

TEST-BED TECHNICAL INFRASTRUCTURE



A TOOLKIT TO FACILITATE THE
ASSESSMENT OF INNOVATIVE
SOLUTIONS IN CRISIS MANAGEMENT

In 2014, dedicated and forward-thinking practitioner organisations, research institutes, industries and SMEs teamed up to drive innovation in Crisis Management for European resilience. The DRIVER+ project valorises the wealth of European innovation in Crisis Management through approaches that seek to improve the way capability development is tackled and potentially innovative solutions are assessed.

DRIVER+ has committed to deliver five sustainable outputs to the European Crisis Management community: a pan-European Test-bed, a Trial Guidance Methodology, a European Crisis Management Innovation Network, a Portfolio of Solutions and a Centres of Expertise framework.

WHAT IS IT?

Do you as a Crisis Management professional need to find a solution to a gap you experienced during operations, or perhaps do you foresee an emerging need? The Test-bed Technical Infrastructure provides a toolkit to connect innovative Crisis Management solutions to each other and to your legacy system, to enable an exchange of information between them. This is referred to as the Common Information Space. In addition, different simulators can be connected to create a realistic crisis environment for you to try out a new solution. We call this the Common Simulation Space. It allows you to create a realistic environment in which you can trial solutions in a structured and systematic way.

This Technical Infrastructure, which is free of charge and open source, consists of several software components to facilitate preparation, execution and evaluation of a Trial:

- Connect Solutions for data and information exchange
- Connect Simulators to create a fictitious, but realistic, crisis
- Create and control the Trial scenario's storylines
- Record and collect observations and logs

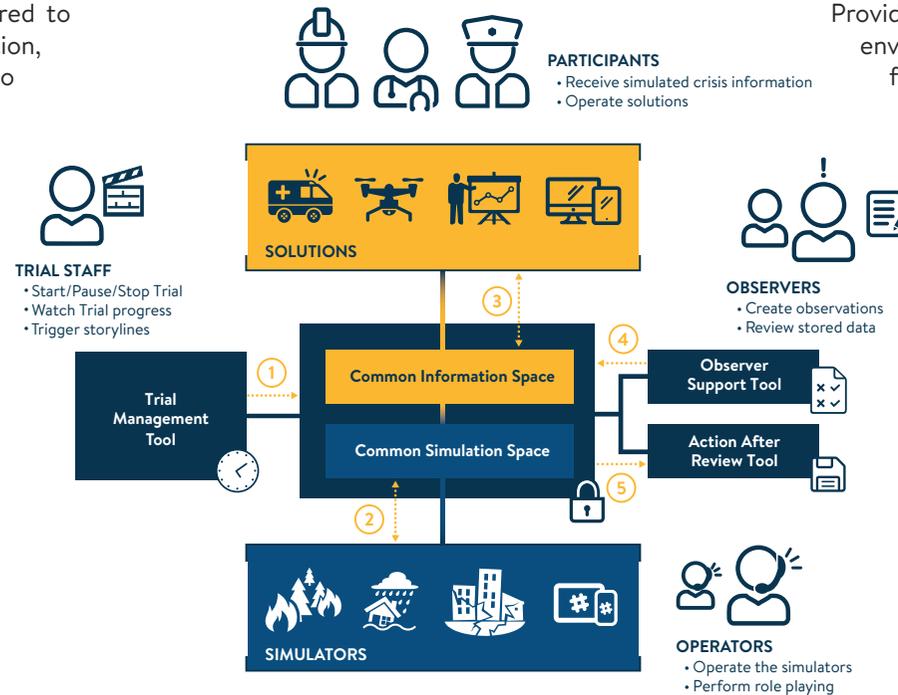
The Test-bed Technical Infrastructure can also support you to enhance the quality and realism of your training and exercises.

WHO IS IT FOR?

Any organisation that wishes to support and run Trials to test new Crisis Management solutions, or to facilitate realistic training can use this toolkit. Training centres, practitioner knowledge centres, Crisis Management academies, and Research & Development institutions can all benefit.

Providers of new solutions can test their innovations in a realistic environment and get meaningful feedback on their products from potential customers.

To support the use of the Test-bed Technical Infrastructure, a Training Module (TM) has been developed providing education, practice and assignments via e-learning and face-to-face workshops. Next to technical explanation, this course covers all aspects of organising a Trial and is aimed at Trial organisers, solution providers and technicians. The TM is delivered as a complete training package, which means it can be hosted by several Centres of Expertise throughout Europe.



- 1 The Trial starts: storylines are activated, and the fictitious crisis evolves.
- 2 Simulators process storylines and additional operator actions. Simulator data is sent to the Solutions.
- 3 Participants use the Solutions and enter information. Solutions are fed with simulator data, share information, and request actions from the Simulators.
- 4 Observers create observations, which are shared and recorded.
- 5 The Trial ends and all logs and observations are collected for evaluation.

ADDED VALUE? WHAT IS THE

The Test-bed Technical Infrastructure provides a platform for creating a rich Trial and training environment. The Trials are designed by applying the Trial Guidance Methodology, while the Test-bed Technical Infrastructure creates the realistic and controllable Trial environment. This methodological and technical support helps Crisis Management organisations avoid spending a great deal of money on acquiring and implementing solutions that turn out to have little added value.

Organisations can also contribute to the upskilling and training of Crisis Management professionals by using the Test-bed in combination with existing tools and systems. Including these operational systems provides a high-fidelity training environment, and thereby Crisis Management staff can gain valuable experience and become better prepared to handle unforeseen situations during actual crises or incidents.



An animated video illustrating the Test-bed
Technical Infrastructure can be found at:



<https://youtu.be/si0YEQKNCKM>

If you have questions, please contact us at
cooperation@projectdriver.eu



This project has received funding from the European Union's 7th Framework
Programme for Research, Technological Development and Demonstration under
Grant Agreement (GA) N° #607798

