

TRIALS IN SUPPORT OF INNOVATION IN CRISIS MANAGEMENT

THE DRIVER+ PROJECT

Todor Tagarev, CSDM (Institute of ICT), Bulgaria NATO CAX Forum 2018, 25^{th} September 2018, Sofia, Bulgaria

DIFFICULT QUESTIONS

NO EASY ANSWERS

How to best support practitioners in their own capability development?

How to further stimulate innovation in Crisis Management?

How can practitioner involvement be improved?

How to increase business opportunities for solutions providers / industry?

How to sustain and further develop project results and collaboration?



































STHALES Group Company





































THE OBJECTIVES OF DRIVER+



To develop a pan-European

Test-bed for Crisis

Management

capability development



To develop a comprehensive Portfolio of Crisis Management Solutions

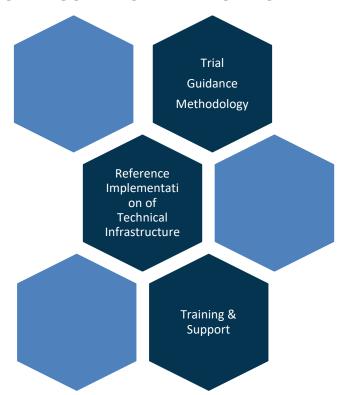


To facilitate a **shared understanding** in Crisis Management across Europe

OBJECTIVE 1: A PAN-EUROPEAN TEST-BED FOR CRISIS MANAGEMENT CAPABILITY DEVELOPMENT

STRUCTURED GUIDANCE AND TECHNICAL INFRASTRUCTURE





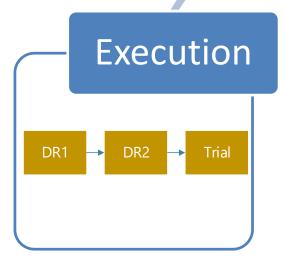
The Trial-oriented environment is designed to allow systematic testing of solutions in realistic yet non-operational contexts (Trials) to help practitioners in assessing solutions that can drive innovation (changes) before adopting them.

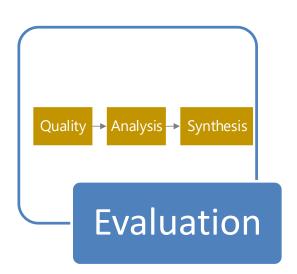
A demonstration infrastructure where stakeholders can collaborate in trialling and evaluating new tools, processes or organisational solutions

PHASES OF THE TRIAL GUIDANCE METHODOLOGY

SYSTEMATIC AND COLLABORATIVE APPROACH

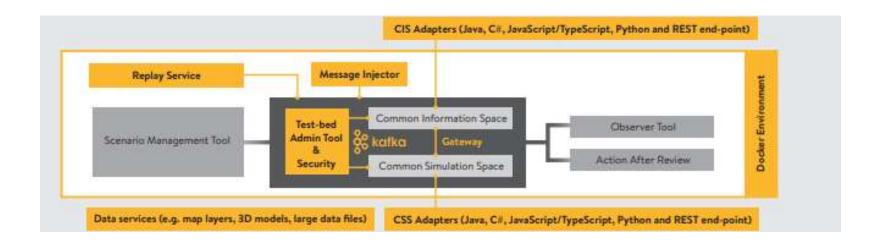






TECHNICAL INFRASTRUCTURE

REFERENCE IMPLEMENTATION



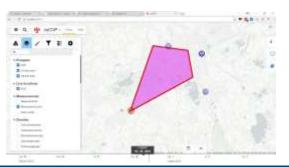
CONDUCTING THE TRIAL

STRUCTURED APPROACH SUPPORTED BY TECHNOLOGY

- Scenario management
- Structured observations
- Valuable After Action Review
- Useful lessons learned







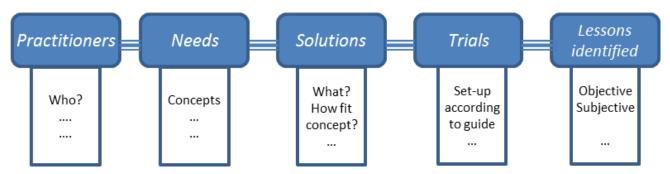




OBJECTIVE 2: DRIVER+ PORTFOLIO OF SOLUTIONS

A CENTRAL REPOSITORY TO SHARE INFORMATION ABOUT INNOVATION

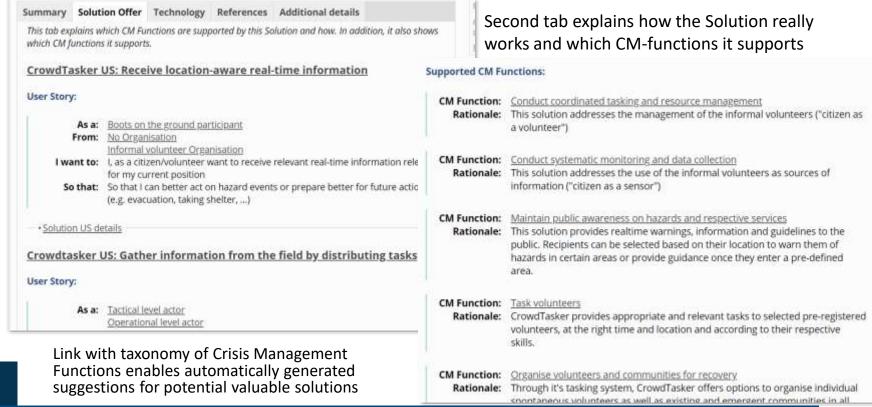
Online database to document and to provide insight into practitioner information, practitioners needs, available Solutions, and experiences and lessons identified from Trials: http://pos.driver-project.eu/; https://www.driver-project.eu/driver-project.eu/driver-project.eu/; https://www.driver-project.eu/driver-project.eu/driver-project.eu/driver-project/



PoS contributes towards a shared understanding of crisis management across Europe, but also towards improved handling of the crisis situations, by making it easier to adopt new innovative solutions.

SOLUTION OFFER

HOW DOES A SOLUTION WORK? WHICH CM FUNCTIONS ARE ADDRESSED?





OBJECTIVE 3: A SHARED UNDERSTANDING IN CRISIS MANAGEMENT

ENHANCING THE COOPERATION FRAMEWORK

1.

Building and structuring a dedicated Community of Practice in Crisis Management to facilitate identification of best practises and sharing of lessons learnt

2.

Cooperating with
CM experts,
practitioners and
solution providers
external to DRIVER+

3.

Organising I4CM
events (Innovation
for Crisis
Management) that
bring together
solution providers,
practitioners at
local/regional level
and relay the
Community of Users
on European level

4.

Developing new standards and/or contributing to ongoing and future standard development

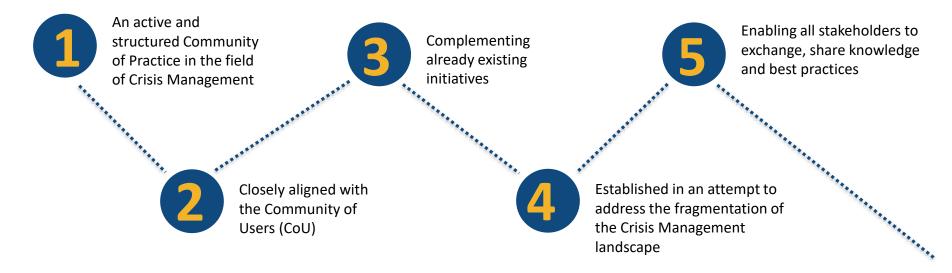
5.

Organising Policy-Research Roundtables to exchange with policy-makers on project results and potential EU policy implications

CRISIS MANAGEMENT INNOVATION NETWORK EUROPE

CMINE: A COMMUNITY OF PRACTICE





CMINE HAS THREE OBJECTIVES



> Strengthen technical support and facilitate engagement within the Crisis Management landscape with a special focus on Disaster Risk Reduction (DRR)

Many initiatives and projects have already been launched in the field of Crisis Management. However, coordination and cooperation between the various entities often remain limited. One of the main objectives behind the creation of CMINE is therefore to reduce and eventually overcome this fragmentation by acting as an umbrella and connecting the actors in the Crisis Management field.



Address capability needs and opportunities for practitioner's and other professionals in Crisis Management

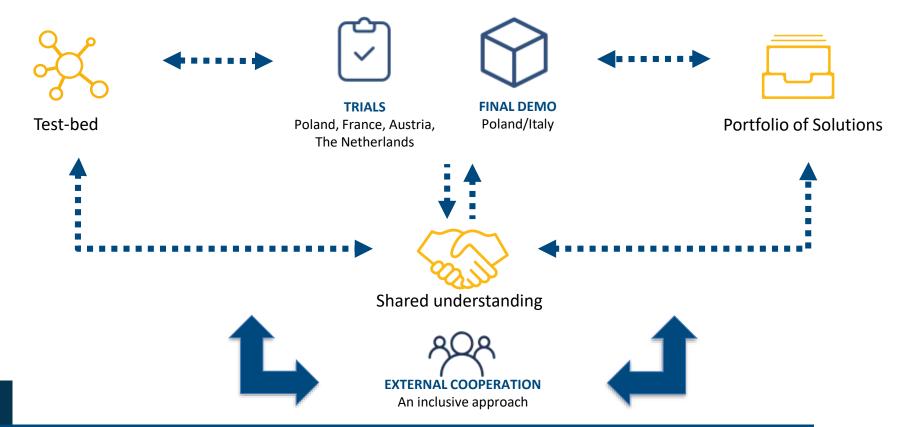
Identifying challenges jointly is the first step towards solving them. To this end, the aim is to provide stakeholders with a fertile ground for new ideas, enabling them to work jointly on identifying needs, defining gaps and the sharing of lessons learnt. The synergies that stem from the CMINE offer stakeholders an excellent opportunity to discuss challenges on all levels and encourages them to come up with novel and innovation solutions.



> Improve market uptake of Crisis Management solutions

For the time being, only a small number of solutions are transformed into actual services or products that can be used by Crisis Management practitioners. While the uptake of solutions in the security domain is better than elsewhere, it is still insufficient considering the investments made. By fostering the exchange of knowledge, insights, and best practices, the CMINE aims to reduce.

HOW WILL WE INCREASE THE IMPACT?





TRIALS + FINAL DEMO

Five events to operationalise and test both the solutions and the Test-bed components

- 1. Poland Toxic mud flood (May 2018)
- 2. France Forest fire (October 2018)
- 3. The Netherlands Flood and power outage (May 2019)
- 4. Austria Earthquake (September 2019)
- 5. Italy and Poland (November 2019)



Based on updated Crisis
Management gaps and
practitioner needs



Benefiting from the DRIVER+ Test-bed components



Testing the potential benefits of DRIVER+ Solutions and Test-bed at EU-level



All results to be made available in the Portfolio of Solutions

WHY ORGANISING TRIALS?

THE ADDED VALUE

A need for a better evidence-based for Crisis Management capability investments decisions

There is a strong innovation momentum present in the Crisis Management community, but an inertia to change, preventing the establishment of sustainable innovation.

A need for addressing complex challenges and delivering modular, flexible and adaptable solutions

Many crises involve interfacing diverse Crisis Management systems and solutions and frequently involve more than one country or region, which may have differing regulations, actors, infrastructures and cultures.

A need for testing, benchmarking, and evaluating solutions in realistic environments

The complexity of Crisis Management makes it hard predicting the potential benefits of new solutions, particularly considering the wide scope of potentially relevant contingencies, and even harder doing this in a way that convinces end-users of investing into those.

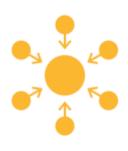
A series of four Trials and one Final Demonstration will be conducted

The aim is to investigate innovative solutions under simulated crisis conditions making use of the DRIVER+ Test-bed, by gradually adapting them to operational constraints, as well as creating acceptance among users through their active involvement and by providing evidence to decision makers that they are cost-effective.

These solutions need to be tested and validated in realistic environments, to show the added value and potential barriers for implementation, before being purchased.

COOPERATION WITH EXTERNAL PRACTITIONERS AND SOLUTION PROVIDERS

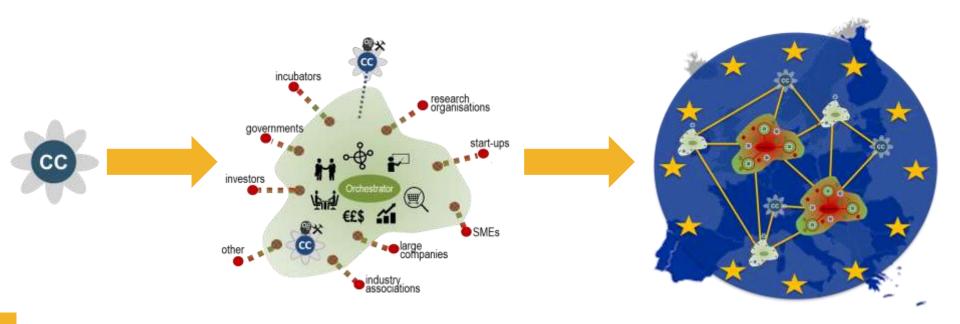
TO ENHANCE AGILITY AND SUSTAINABILITY



Identify and update **needs and gaps** in Crisis Management Develop **scenarios** as a basis for the DRIVER+ Trials Call for external **solutions** to be implemented in the Trials Prepare, conduct and evaluate the **Trials** Develop open source software for the Test-bed **Evaluate** the solutions and derive **lessons learnt Opening up** the Portfolio of Solutions Establish a **Sustainability Board** with external members From **Centres of Expertise** to **Innovation Hubs**?

TOWARDS SUSTAINABLE PAN-EUROPEAN COLLABORATION

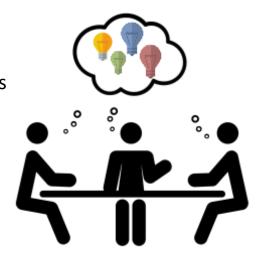
MULTI STAKEHOLDER NETWORKS



TOWARDS INITIAL ANSWERS TO DIFFICULT QUESTIONS

ENHANCING FIRST RESPONDERS' CAPABILITY DEVELOPMENT AND INNOVATION MANAGEMENT

- Create safe environments to try out / experiment / trial
 Open source infrastructure (different business models)
- Actively engage external practitioners in project activities (Trials)
- Actively engage external solution providers (Call for Applications)
- Share experiences and lessons learned in a systematic way
- Join forces: from competence centers to (pan-EU) innovation hubs



THANK YOU. ANY QUESTION?



CONTACTREACH US









DRIVER Project

More information about the project - coordination@projectdriver.eu Interested in collaborating with us? - cooperation@projectdriver.eu Communication and media contact communication@projectdriver.eu



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