

DRIVER+INTRODUCTION

Marcel van Berlo, TNO 18 April 2018, Weeze, Germany

DRIVER+: DRIVING INNOVATION IN CM FOR EUROPEAN RESILIENCE



EU FP7 demonstration project (SEC-2013.4.1-1) 31 partners from 15 countries

Who?

- Crisis Management professionals
- Industries/SMEs
- Researchers

How?

Integration and validation of emerging solutions through Trials



Original Start/end date: May 2014 - Oct. 2018

Restart/ end date: Sept. 2017 - April 2020



































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THE OBJECTIVES



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: TO DEVELOP A PAN-EUROPEAN TEST-BED FOR CM CAPABILITY DEVELOPMENT

AN ARENA OF VIRTUALLY CONNECTED FACILITIES AND CRISIS LABS

1.

Providing a pragmatic step-by-step guidance to conduct Trials

2.

Providing a reference implementation for all DRIVER+ Trials

3.

Providing general guidance and the technical infrastructure of the Test-bed to support the Trials

4.

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



OBJECTIVE 2: TO DEVELOP A PORTFOLIO OF CRISIS MANAGEMENT SOLUTIONS

A DATABASE-DRIVEN ONLINE CATALOGUE

1.

Documenting and presenting details on solutions tested and evaluated during the DRIVER+ Trials

2.

Allowing for the introduction of **third party solutions** already used by practitioners or relevant to Crisis Management

3.

Supporting the sharing of user experiences, and thereby, easing the successful implementation and usage of solutions for other practitioners



OBJECTIVE 3: TO FACILITATE 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

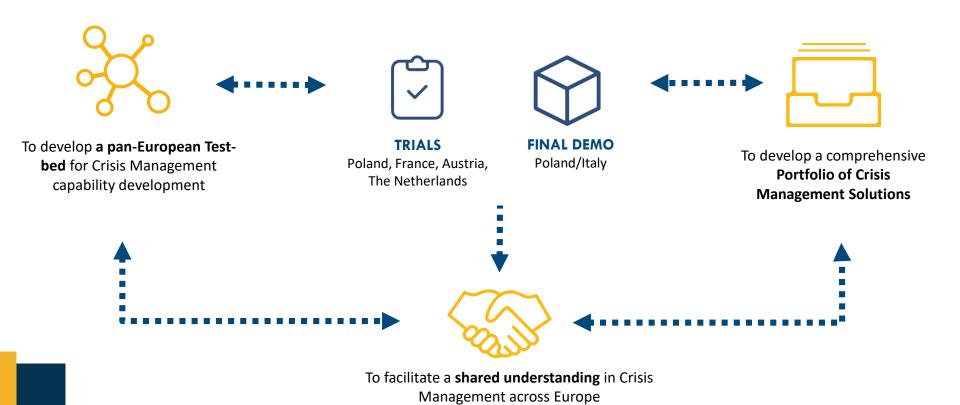
4.

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

5.

Organising 3 Policy-Research
Roundtables to exchange with policy-makers on project results and potential EU policy implications

HOW WILL WE REACH THE OBJECTIVES?





TRIALS

4 EVENTS TO OPERATIONALISE AND TEST BOTH THE SOLUTIONS AND THE TEST-BED COMPONENTS

Poland, France, Austria, The Netherlands



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



1 EVENT TO SHOWCASE THE SOLUTIONS, THEIR EFFICIENCY AND EU ADDED-VALUE Italy and Poland

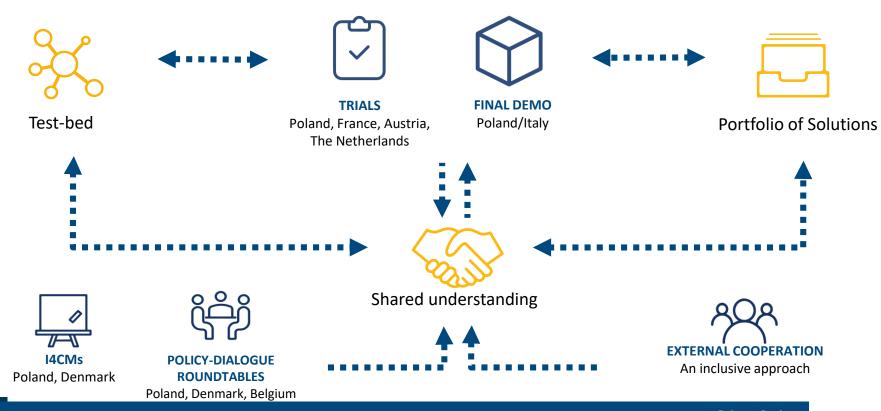


Building upon the results of the Trials and the lessons learnt from reference implementations and design validation of the Test-bed



Showcasing the benefits that DRIVER+
Solutions and Test-bed may represent at
the EU-level and for the Emergency
Response Coordination Centre (ERCC)
activities in particular

HOW WILL WE INCREASE THE IMPACT?



TEST-BED

STRUCTURED GUIDANCE AND TECHNICAL INFRASTRUCTURE

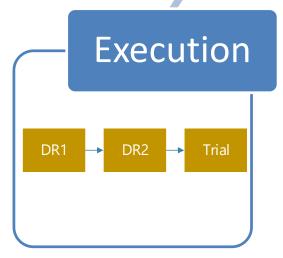


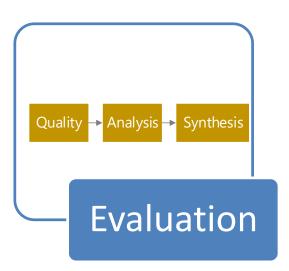
The Trial-oriented environment developed in the project is designed to allow systematic testing of solutions in realistic but non-operational contexts (Trials) to help practitioners in assessing solutions that can drive innovation (changes) before adopting them.

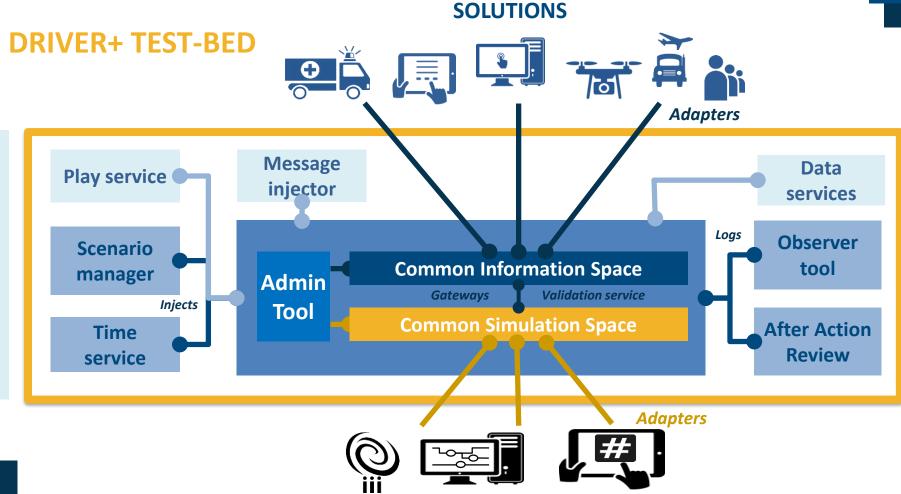
PHASES OF THE TRIAL GUIDANCE METHODOLOGY

SYSTEMATIC AND COLLABORATIVE APPROACH







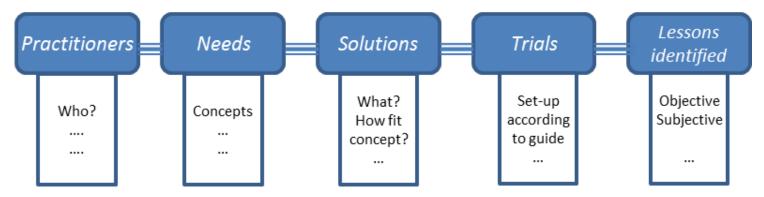


DRIVER+ PORTFOLIO OF SOLUTIONS



A CENTRAL REPOSITORY TO SHARE INFORMATION ABOUT INNOVATION

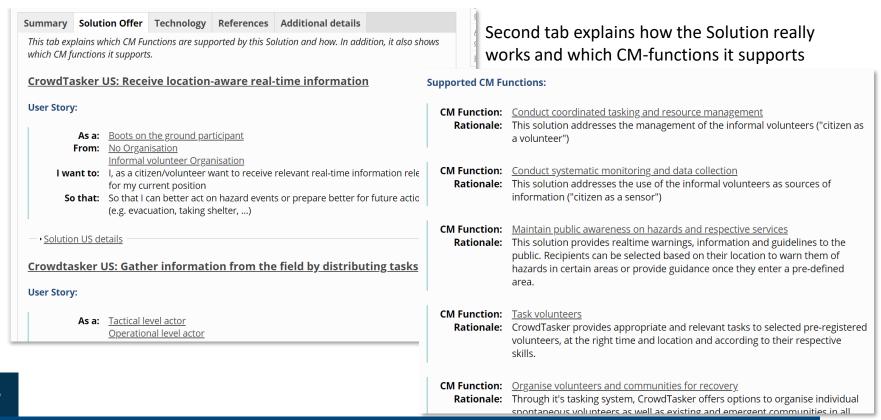
Online database to document and to provide insight into practitioner information, practitioners needs, available Solutions, and experiences and lessons identified from Trials.

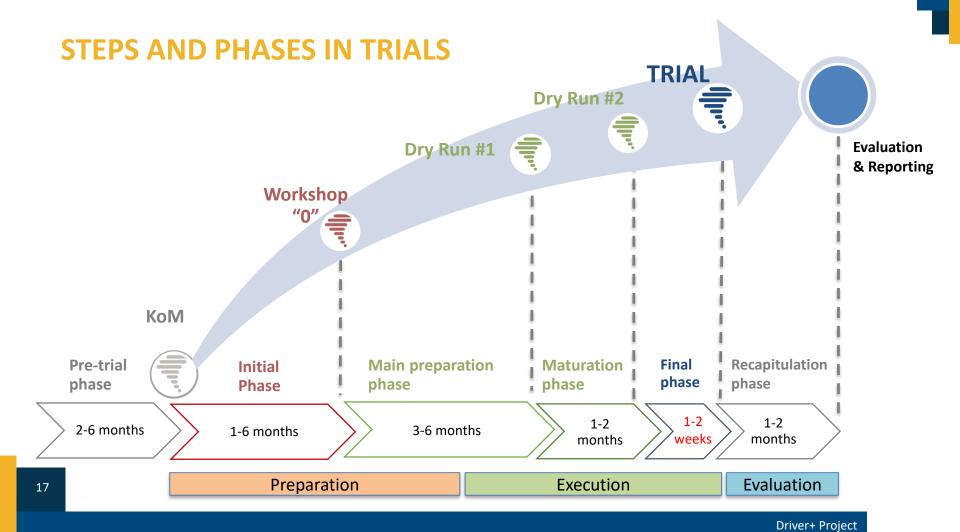


PoS DB contributes towards a shared understanding of crisis management across Europe, but also towards improved handling of the crisis situations, by making it easier to adopt new innovative Solutions.

SOLUTION "OFFER"

WHICH CM FUNCTIONS ARE ADDRESSED? HOW DOES SOLUTION WORK?





UPDATED GAPS ASSESSMENT

VALIDATION WORKSHOP

38 external stakeholders

- From FR, NL, DE, IT, SE, PT, PL, GR, EU-ERCC
- Mainly practitioners: fire-fighters and incident commanders from local to national levels, red-crosses, police officers, national authorities for CBRNE issues, water boards, military officers,...
- Some academics

Five main categories of gaps

- Decision support (4)
- Information sharing, situational awareness and coordination (5)
- Engaging the population (warning, crowd-sourcing, crowd-tasking volunteers) (5)
- Resource planning and logistics (4)
- Casualty management (3)





LIST OF GAPS FOR TRIAL 1

SELECTED AND VALIDATED GAPS

- Gap T1.1: Limitations in the ability to model real-time (response phase) or pre-event (preparedness phase)
 dynamics of the chemical and radiological threat and visualisation of obtained results in a form that can be used
 directly by the Head of the Rescue Operations.
- Gap T1.2: Lack of a Common Operational Picture (COP) environment to integrate data sources and calculation results from different models crucial for decision making process from the perspective of Head of Rescue Operation.
- Gap T1.3: Limitations in the cross vulnerabilities (people, property, environment) assessment to optimize task prioritization and decision making.
- Gap T1.4: Insufficiencies in terms of resource management (humans resources, hardware, etc.) during multistakeholder long-term rescue operations.
- Gap T1.5: Lack of effective **public warning system** with the ability to verify whether the information reached the recipient.

SCENARIO OF THE TRIAL

A FAILURE OF TURNCOCK CAUSING A RAPID RELEASE OF SIGNIFICANT AMOUNT OF A FLUID TOXIC MUD TO RESERVOIR. DIKES OF RESERVOIR ARE WEAKENED AFTER PROLONGED RAIN AND THEY BREAK UNDER ADDITIONAL PRESSURE.

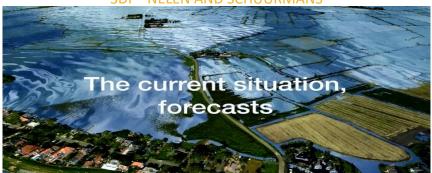




SELECTED SOLUTIONS: TRIAL 1 (MAY 2018, POLAND)

25 RESPONSES ON OPEN CALL FOR APPLICATIONS – 13 INVITED SOLUTIONS – FINALLY: 4 SOLUTIONS SELECTED

3DI – NELEN AND SCHUURMANS



SOCRATES OC – GMV (DRIVER+ PARTNER)



NOWFORCE – NOWFORCE

With Crowdsourcing







Caller reports crime, tip, hazard, emergency, request for assistance

Many inputs to 9-1-1

Smart incident management system weeds out duplicates, analyzes for "noise"

Dispatches nearest responders, arrive in 2-3 minutes









DRONE RAPID MAPPING - CREOTECH



PARTICIPATION OF PRACTITIONERS AND SOLUTION PROVIDERS

HOW?



To identify and update needs and gaps in Crisis Management

To develop scenarios as a basis for the DRIVER+ Trials

To integrate solutions for the Trials

To prepare and conduct the Trials

To evaluate the solutions and derive lessons learnt

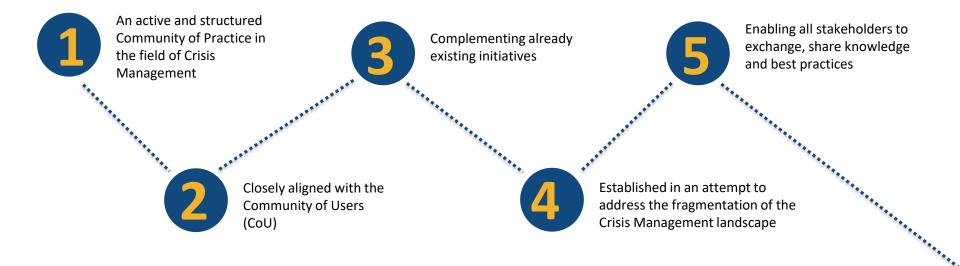
To participate in workshops, conferences and dialogue roundtables

To join the **Online Community Platform** to exchange on best practices, future trends etc.

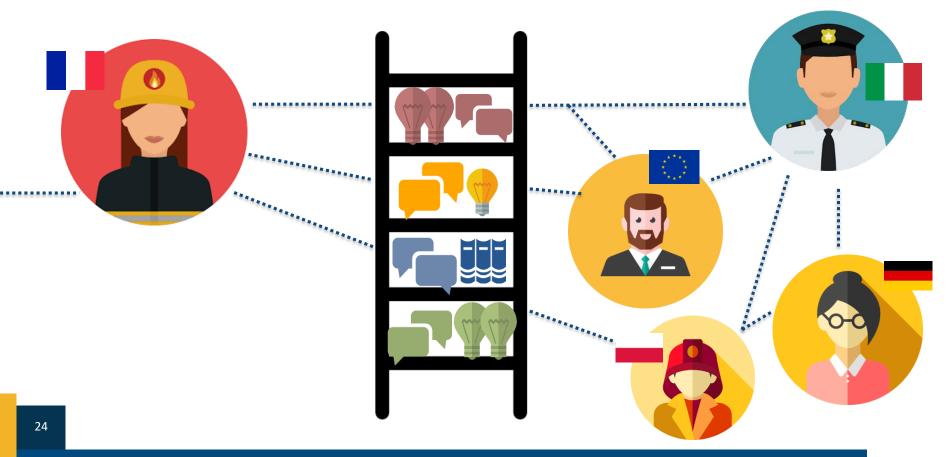
To prepare reference documents, guidelines and standards

THE CMINE

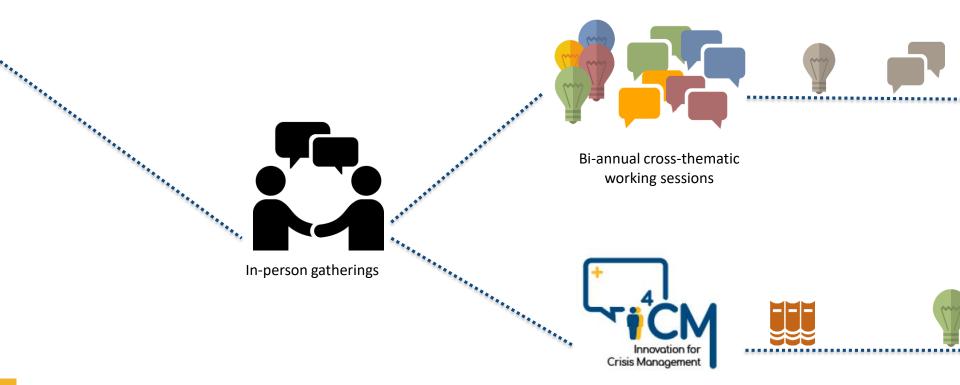
CRISIS MANAGEMENT INNOVATION NETWORK EUROPE



THEMATIC WORKING GROUPS



THE IN-PERSON ENVIRONMENT



CURRENT PROGRESS

3RD EDITION OF THE I4CM

Innovation for Crisis Management (I4CM)

Warsaw, Poland 3rd and 4th of September, 2018 Copernicus Science Centre



Are you a practitioner in the field of Crisis Management? Are you a solution provider?

Are you involved in a related project or initiative?

Are you a policy-maker impacted by Crisis Management

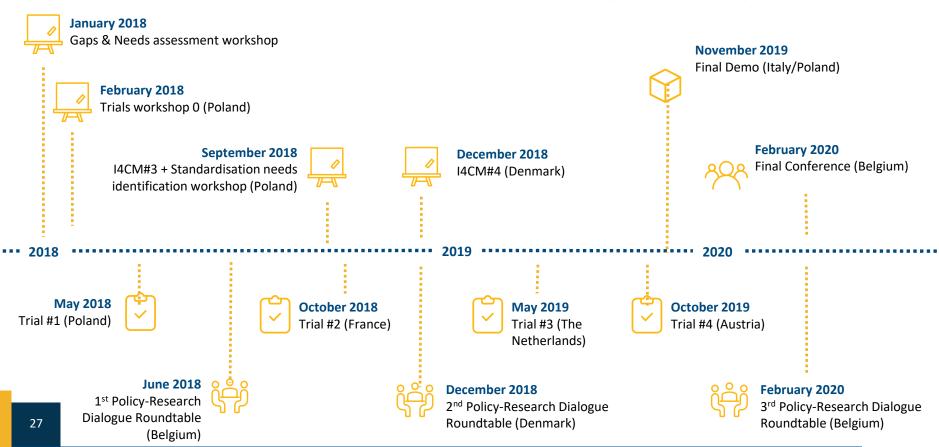
SAVE THE DATE!

More Information to come soon. Stay tuned! www.driver-project.eu

The 3rd edition of the I4CM event organised by the DRIVER+ project has been designed for you and will be visiting Poland in 2018! This event will provide a platform allowing practitioners, solution providers and policy-makers from the region and beyond to meet and exchange on best practices and lessons learn!

Focusing on standardisation and regional-national pressing issues, this event will also be the occasion to present the results of the first DRIVER+ trial to be organised in May 2018 in Warsaw and to give a view on the second one to be organised in October 2018 in France

HIGH LEVEL OVERVIEW – FULL PLANNING (UPDATED)



THANK YOU. ANY QUESTION?



CONTACTREACH US





Groups: DRIVER Project



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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