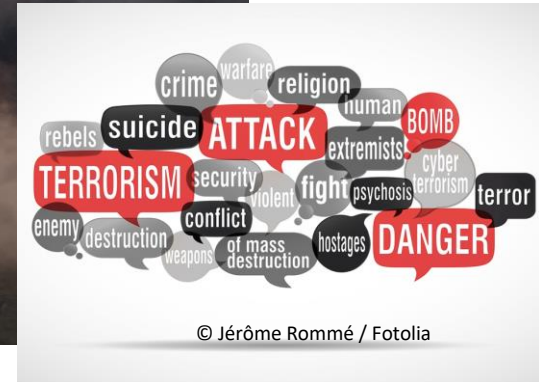# PROJECT OVERVIEW AND ACHIEVEMENTS

DRIVER+

Marcel van Berlo, TNO

18-20/02/2020, DRIVER+ Final Conference, Brussels, Belgium

RAPIDLY EVOLVING CRISIS MANAGEMENT LANDSCAPE

© Jérôme Rommé / Fotolia

CONSTANT NEED TO ADAPT, PREPARE, RESPOND AND RECOVER

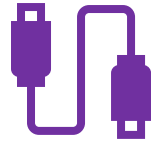## NEED FOR CAPABILITY DEVELOPMENT AND INNOVATION

HOWEVER…

·

Time	What	Where	Who	How	Share

INNOVATIONS ARE LIKE

FINDING COWS IN THE DUNES

4

DRIVER+ seeks to improve the way capability development and innovation management are tackled, by assessing and validating (in realistic environments) solutions that are addressing the operational needs of Crisis Management practitioners

1. Practitioner-centered

2. Multiple perspectives

driver-project.eu

3. Focus on sustainability

4. Inclusive approach

PRACTITIONER CENTERED

MAIN TARGET GROUP

- Gaps workshop
- Co-creation
- Knowledge transfer
- Adapt to their language, way of working
- Realistic context
- Trials are at the heart of the project

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 – Flooding (May 2019)
4. Austria – Earthquake (September 2019)
5. Poland and the Netherlands – Multi hazard (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

MULTIPLE PERSPECTIVES

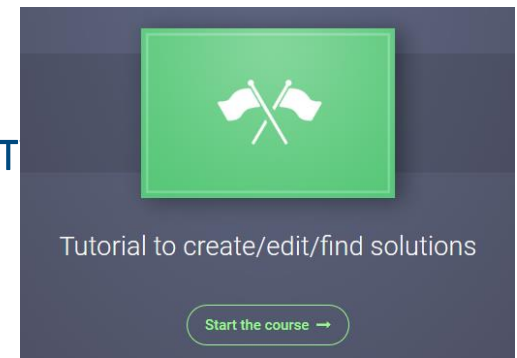## VARIOUS BACKGROUNDS

BOTH AS CONSORTIUM PARTNERS AND EXTERNAL COOPERATION PARTNERS
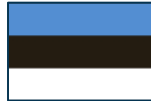
FOCUS ON SUSTAINABILITY

BALANCE BETWEEN SCIENTIFIC RIGOUR AND APPLICABILIT

- Scientifically robust approach
- Various types of crisis situations
- Easy to use
- Animations, videos, webinar, tutorials
- Training Modules
- User Workshop, trainings
- Find adopters, users, supporters

Tutorial to create/edit/find solutions

Start the course →

DRIVER+ Final Demonstr...

DRIVER+ Training Module: Session 5.2
TEST-BED TECHNICAL INFRASTRUCTURE
A toolbox of software components to facilitate Trials

MEER VIDEO'S

4:19 / 15:25   YouTube

CMINE Interview - Volunt...

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INCLUSIVE APPROACH
ACTIVELY REACHING OUT

- Reach out to external organisations, projects, networks, initiatives
- Invite to participate to Trials
- Ask feedback from external experts (incl Ethical & Societal / Advisory / Sustainability Board)
- Organize various events (I4CM, Policy-Research Dialogue Roundtables)
- Stimulate and support external organisations in using the outcomes

MAIN OUTCOMES

ALL OPEN SOURCE

TGM
Trial Guidance Methodology

Test-bed
Technical Infrastructure

TM
Training Module

PoS
Portfolio of Solutions

CMINE
Fostering Innovation in Crisis Management

CoE
Centre of Expertise

Crisis Management Terminology
CEN Workshop Agreements

TRIAL GUIDANCE METHODOLOGY (TGM)
A PRAGMATIC AND SYSTEMATIC SUPPORT
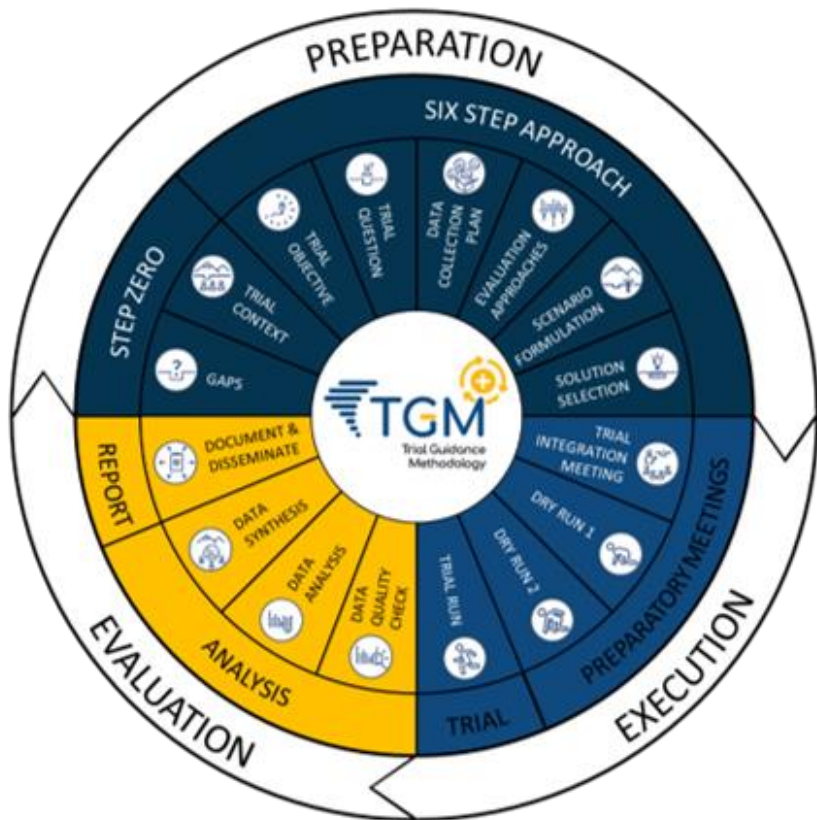
Structured approach (step-by-step guidelines) to carry out a **robust assessment of solutions** and their potential **impact on** the socio-technical set-up of a Crisis Management **organisation**

TRIAL GUIDANCE TOOL

Book navigation

- TGT Tutorials
- Trial Guidance Methodology
- Trial preparation
- Analysis Technique - Example
- CM Gaps selection - Example
- Formulate Scenario - Examples
- Research Question - Example
- Solution Selection Example
- Trial Objectives - Example

PREPARATION

| Trial preparation step

EXECUTION

| Trial execution step

The preparation of each Trial starts with defining the trial context, which refers to who, what, why and how. Within the GT, the very first step is to add a new "Trial Group" and invite the initial Trial Team to join this group. Trial Groups are virtual working spaces for organising trials. They allow the Trial Owner to organise a team and assign different roles and responsibilities to team members.

The starting point for designing the trial is to indicates which of the generic CM gaps the trial is going to address, followed by defining of the Trial Objectives, formulating the Research Questions, discovering and pre-assessing the potential solutions etc.. GT assures that this work proceeded in line with the TGM 6-step methodology, as illustrated below:

Trial Context → Trial Team → Relation to Gaps → Trial Design (6-step approach)

Iterative 6-step approach:
- Identify the trial objectives
- Formulate research questions
- Formulate data collection plan
- Formulate evaluation approaches and metrics
- Formulate scenarios
- Select Solutions

TGM defines this 6-step approach as *iterative* process, where steps in the process are iterated as many times as needed, until they reach the quality level that is deemed sufficient by the trial owners and their teams.

TEST-BED TECHNICAL INFRASTRUCTURE

CREATING A REALISTIC TRIALLING ENVIRONMENT

PARTICIPANTS

SOLUTIONS

OBSERVERS

Trial Management Tool

Common Information Space

Common Simulation Space

Observer Support Tool

Action After Review Tool

TRIAL STAFF

SIMULATORS

OPERATORS
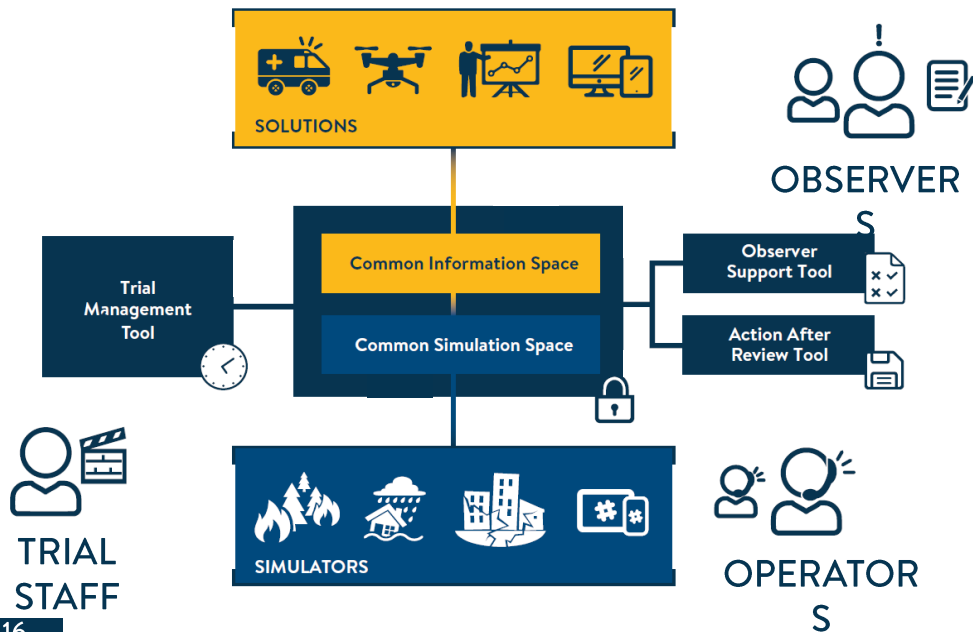
Free of charge and open source toolkit that allows to:

- **Connect** innovative Crisis Management **solutions** to each other to enable an **exchange of information** between them

- Connect different simulators to **create** and control **realistic crisis environments/scenarios**

TRAINING MODULE
BOTH E-LEARNING AND CONTACT PHASE
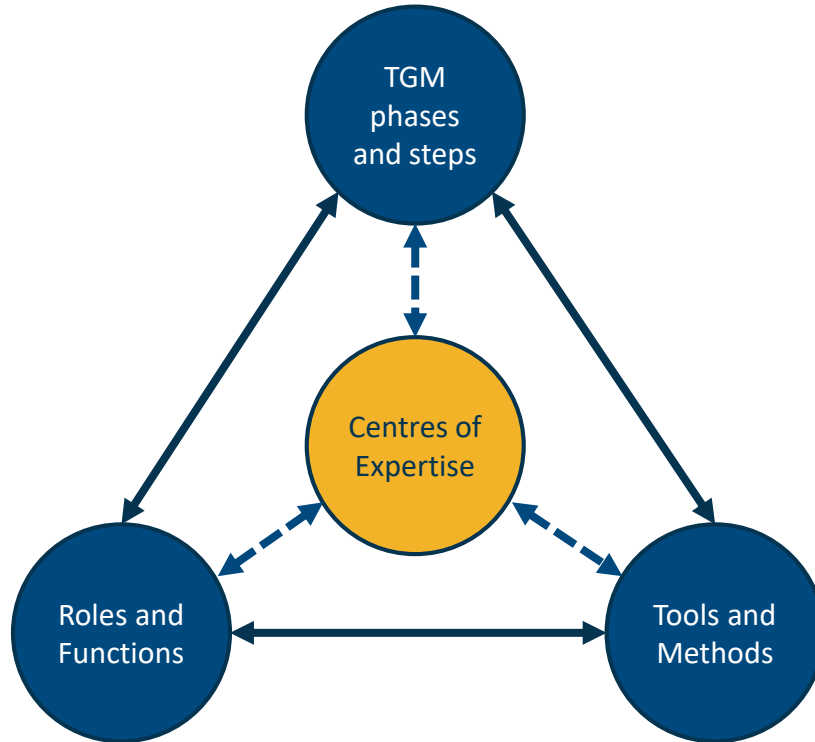
Multiple target groups:

- Trial organisers & CM practitioners
- Solution providers
- Technicians

Various didactics:

- E-lectures (video lectures)
- Quizzes
- Animations
- Video interviews
- Q&A and discussion forum
- Face-to-face workshops
- Group assignments

E-LEARNING VIA MOODLE PLATFORM

HOSTED BY ESTONIAN ACADEMY OF SECURITY SCIENCES (EASS)

Session 2.2 e-lecture and interactive exercises

Next: **2. Interactive exercises** ▶

1. Video

Table of contents

PORTFOLIO OF SOLUTIONS

SELECT, SHARE AND UPLOAD SOLUTION INFORMATION

Lessons identified
Gaps addressed
Knowledge database

EXPERIENCES

Shared place where stakeholders meet around solutions

PoS

SOLUTIONS

Crisis Management Functions
Technology Readiness Level
Innovation Stage

Open-source and interactive repository for CM solutions (online market place) that:

- Provides access to information about **available CM solutions** (supply) and matches it with **practitioner needs** (demand)
- Enriches solution descriptions with **experiences** and lessons identified from practitioners
- Feel free to upload information on solutions yourselves (pos.driver-project.eu/)

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OVERVIEW OF SOLUTIONS

LINK WITH DRMKC AND IFAFRI GAPS

CRISIS MANAGEMENT INNOVATION NETWORK EUROPE

FACILITATING THE UPTAKE OF RESEARCH AND INNOVATION
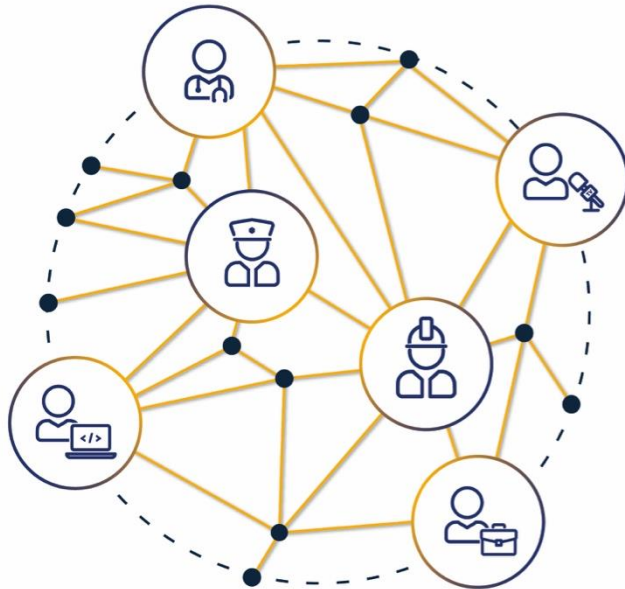
Community of Practice with the aim to:

- **LinkedIn for Crisis Management** Innovation in Europe (**'One-stop shop'**)

- Foster innovation through **multi-stakeholder** and cross-sectoral interaction

- Contribute to an **enhanced understanding** of CM in Europe

JOIN HTTPS://WWW.CMINE.EU
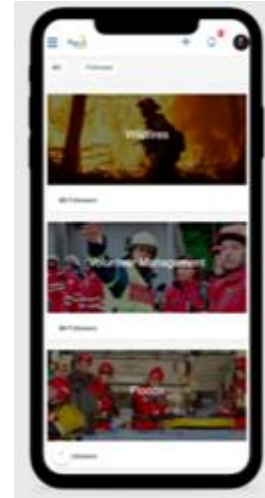
GLIMPSE INTO CMINE

Directory

Events

DRIVER+ Project

GLIMPSE INTO CMINE

News   Forums   Groups   Live feed   Events   Projects   Media center   Directory

HKV	**Lancaster University**	**AIOSAT**	**Evacuation Management Platfor...**	**I-React Project**
Wien, Austria	Wien, Austria	Spain	Cyprus	Paris, France
Real Time Flood Risk Assessment Viewer	MoreIT - Responsible Innovation and Digital Ethics ...	The AIOSAT system will allow the team/brigade commande...	EMP HERACLIS is a software solution enabling the coordin...	I-REACT is the result of a three-year European Project that de...
ILEAnet Project	**HumanSurge**	**IMPROVER Project**	**SAYSO Project**	**INACHUS project**
Paris, France	Berlin, Germany	Gothenburg, Sweden	Bonn, Germany	Athens, Greece
ILEAnet aims to build a sustainable organisational La...	HumanSurge seeks to improve the quality & timeliness ...	The overall objective of IMPROVER is to improve Euro...	SAYSO's mission is to define the reference architecture an...	Crisis incidents may result in difficult working conditions fo...
RESILOC H2020	**NO-FEAR**			
Frankfurt, Germany	Novara, Italy			

Standardisation Group

+ 23   √ Joined

CMINE
Fostering Innovation in Crisis Management

Volunteer Management

Wildfires

Floods

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CENTRES OF EXPERTISE
EXPERT SUPPORT FROM AND TO PRACTITIONERS
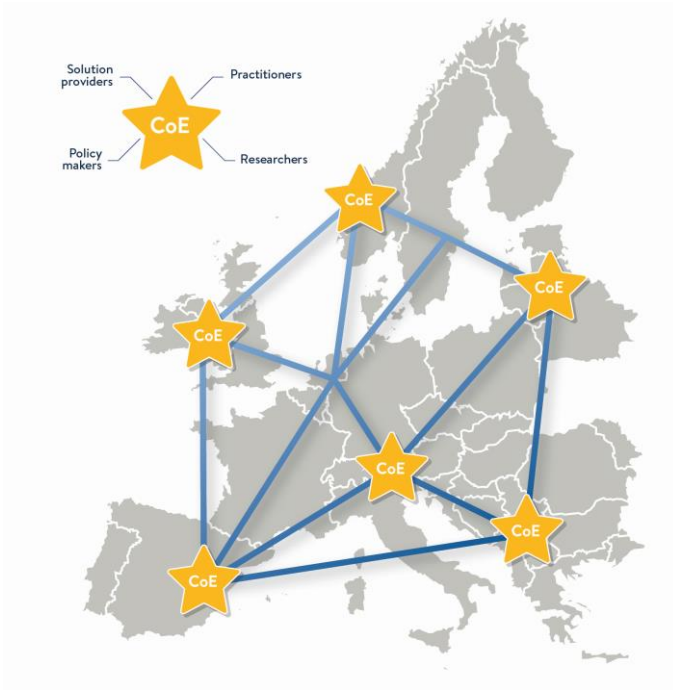
- Organisation that **supports the capability development and innovation management** of practitioner organisations at the national or regional level

- **Adopts** either the whole suite of **DRIVER+ outputs** or only some of its components

- Establish a **pan-European network**

- Development of **CoE toolkit**

VARIETY OF ORGANISATIONS, SCOPE AND AMBITIONS

AND MORE CoEs, PLATFORMS AND CONTACT POINTS TO FOLLOW

CRISIS MANAGEMENT TERMINOLOGY

ENHANCING A SHARED UNDERSTANDING IN CRISIS MANAGEMENT

DRIVER+ TERMINOLOGY

Mutual understanding of practitioners and other key actors involved in international crisis and disaster management turned to be a key challenge. Barriers to understanding due to different cultural, organisational and educational background were identified to be main challenges of communication and information exchange of several activities such as border crossing cooperation. In this light, DRIVER+ decided to establish an English project terminology of key terms and associated definitions in order to enhance a common understanding within the project team and to contribute to a shared understanding within Europe.

The rationale behind this terminology can be found at the bottom of the page.

A list of Acronyms and Abbreviations used within the project can be found here.

List of Acronyms and Abbreviations

DRIVER+ Portfolio of Solutions

AFFILIATED VOLUNTEER

ASSESSMENT

CRISIS MANAGEMENT TERMINOLOGY

IMPLEMENTED IN THE PORTFOLIO OF SOLUTIONS

PoS Glossary

This page provides the default DRIVER+ definitions for all DRIVER+ terminology terms, as well as the alternative definitions that are used by specific groups of *Crisis* Management stakeholders. Follow this link to export the complete list as PDF.

Search [   ]

Apply

	Description
Affiliated volunteer	An individual who is affiliated with an existing incident *response* organization or voluntary organization but who, without extensive preplanning, offers support to the response to, and recovery from, an incident...
Assessment	test
Assessment/Disast	A qualitative or quantitative approach to determine the nature and extent of *risk* by analysing potential hazards and

response

Actions taken during or immediately after a disaster in order to save lives, reduce health impacts, ensure public safety and meet the basic subsistence needs of the people affected.

read more

CONTRIBUTIONS TO STANDARDISATION

CWA: CEN-CENELEC WORKSHOP AGREEMENTS

Standards support the transfer of knowledge and technology, and play a pivotal role in implementing and disseminating innovations and research findings.

1. prCWA 17514:2020 Systematic assessment of innovative solutions for crisis management — Trial guidance methodology
2. prCWA 17513:2020 Crisis and disaster management — Semantic and syntactic interoperability
3. prCWA 17515:2020 Building a common simulation space
4. prCWA 17335:2018 Terminologies in crisis and disa

One ISO New Work Item Proposal:
1. Societal Impact Assessment

Standardisation Group

SUMMARY

PROJECT VIDEO

THANK YOU.
ANY QUESTION?

driver-project.eu

CONTACT
REACH US

@driver_project

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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