

DRIVER+
VALUE FOR IFAFRI

Marcel van Berlo, TNO 05/11/2019, IFAFRI Annual meeting, Helsinki, Finland











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









































































MAIN RESULTS SO FAR

WORK IN PROGRESS

- Pan-European Test-bed:
 - Trial Guidance Methodology Handbook (and Trial Guidance Tool)
 - Technical infrastructure
 - Training Module
- Portfolio of Solutions
- CMINE Crisis Management Innovation Network Europe
- Centre of Expertise
- Standardisation











PORTFOLIO OF SOLUTIONS

KEY MESSAGES / UNIQUE SELLING POINTS





Open-source and interactive database 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.driverproject.eu/)

OVERVIEW OF SOLUTIONS



Crisis Cycle Phase

mitigation (14)

preparedness (20)

recovery (17) response (30)

Innovation stage

stage 2 research and developement

stage 3 initial piloting (6)

stage 4 early adoption distribution

stage 5 market growth (8)

stage 6 widescale adoption (4)

Crisis size

Crossborder (18)

large scale (16)

☐ local (29) regional (28)

Solution of the day:

ICM - Incident & Crisis Management



PDF export

UAV-ASIGN

UAV-ASIGN is a software solution that helps reduce emergency and disaster response time by collecting and sending UAV photos and videos while in-flight even through low or constrained bandwidths.



SOCRATES OC

SOCRATES OC enhances analysis and decision-making capabilities by means of an improved shared situational awareness based on relevant information about the operational situation including crisis events, missions and resources, created by the operator or coming from external sources.



MDA command and Control

MDA C4I system allows for efficient, real time response to tasks on the field (e.g. people in need for medical assistance), by allocating the site, allocating the resources needed and available. tasking the resources and following up the acomplishment.



3Di - Water Management

3Di is a cloud-based versatile water management instrument that enables flood forecasting and risk mapping. 3Di models are fast, accurate and visual.



LifeX COP

LifeX COP is a web-centric multi-user Solution developed by Frequentis to address the lack of a Common Operational Picture in the field of Crisis Management.



GDACSmobile

GDACSmobile is a support platform for collecting and sharing situational awareness information. It aims to serve two main target groups with different rights and roles; people concerned with disaster relief and the (affected) population itself.



CrowdTasker

CrowdTasker enables crisis managers to instruct large numbers of non-institutional (either spontanoues or pre-registered) volunteers with customizable tasks, contextual information. warnings and alerts, as well as to crowdsource information from them.



Rapid Mapping

DroneRapidMapping enables rapid mapping of incident/crisis area.



CrisisSuite

The main objective of CrisisSuite (online crisis management software) is to enable organisations to successfully manage information during a crisis.



On the one hand, the information about the crisis situation is brought thanks to the use of dedicated modelers: · Partner modeler: This modeler allows the crisis manager to model crisis management stakeholders that can be mobilized in case of crisis situation and their capabilities.



Airborne and Terrestrial Situational Awareness

The solution "Airborne and Terrestrial Situational Awareness" is composed of several individual components and tools, which are integrated into a complete system, ready to be deployed in different scenarios.



HumLogSuite

HumLog Suite is a performance assessment platform that serves logistic processes in crisis management. It can operate on both current operational logistics network and fictional (planned) network configurations.



Emergency Mapping Tool (EMT)

EMT faciliates seamless exchange of information for stakeholders in the crisis management.



Debris Tool

The Debris Tool is a software based solution designed to amalgamate various defined inputs from the field, historic survey data and other sources, for the prediction and modelling of waste and debris removal options in a post-crisis environment.



drive PROTECT

Using the know-how and expertise acquired during the development of the CECIS tool, the PROTECT application is a web-based alert and notification system for emergency (and early warnings) situations concerning civil protection.



Scenario enabled Psychological First Aid (PFA) training

The scenario enabled psychological first aid (PFA) training comprises knowledge on what PFA is, guidelines on how to perform PFA and an experiential training package to build the capacity to deliver quality PFA.



Social Media Analysis Platform



I-REACT



XVR Crisis Media



SE-Star: THALES Crowd

FILTER AND SELECT SOLUTIONS



HOME » THE PORTFOLIO OF SOLUTIONS

Items per page 24 V Apply

Crisis Cycle Phase

Crisis Cycle Phase

mitigation (17)

preparedness (32)

recovery (22)

response (41)

Innovation stage

stage 1 concept (1)

stage 2 research and developement (2)

stage 3 initial piloting (9)

stage 4 early adoption distribution (17)

☐ stage 5 market growth (11)

stage 6 widescale adoption (6)

Alternatively to directly searching for the solution PDF export



CITY MANAGEMENT PORTAL

The city management portal is special designed for routine management of operations as well as large-scale events and crisituations.



Nordic GTV (gyro terrain vehic

Nordic Gyro Terrain Vehicle is a small trailer designed for offroad use. It can be pulled by any mothorised off-road vehicle (ATV), including snowmobiles.

Filter by CM function

provide decision support (11)

collect information from deployed sources (10)

maintain shared situational awareness (10)

orient and decide (7)

provide situational awareness share cop (7)

conduct damage and needs assessment (6)

develop and sustain cop (6)

provide communications and information support to c3 (6) conduct coordinated tasking and resource management (5) provide information on the crisis impact (5)

establish and share detailed cop (4)

response (4)

review and adjust the response plan (4) train individuals teams and organisations (4)

command response operations (3)

of mortality and morbidity risk to facilitate optimal risk management, risk transfer, and risk mitigation decisions that align with organisation's strategic goals. are addressing the gaps you are interested in.



EPISECC CIS

Common Information Space as Enabler for Collaboration in Disaster

Management



Scenario Building Tool

A dynamic tool regarding multiple hazard scenarios simulation for the training civil protection actors

CONTACT

CrowdTasker enables crisis managers to instruct large numbers of non-institutional (either spontaneous or pre-registered) vol with customizable tasks, contextual information, warnings and alerts, as well as to crowdsource information from them. The received feedback is evaluated and visualized and provides <u>crisis</u> managers with a detailed overview of the situation, which in turn to trigger adequate <u>disaster</u> relief services.



When working with the volunteers that are already at a disaster site CrowdTasker allows the crisis managers to:

- · Dramatically reduce the time and effort needed to exchange information with these volunteers;
- · Differentiate between the volunteers based on their profiles (e.g. skills, health) and positions
- · Address the people that potentially possess local knowledge;
- · Alleviate the workload for emergency and response organizations;

SUPPORTED USE CASES

Crisis/Incident category

Anv

Innovation stage

Stage 4: Early Adoption/ Distribution

Readiness

TRL 7 - System prototype demonstration in operational environment

Crisis size

- Cross-border
- Large scale
- Regional
- Local

Crisis Cycle Phase

- Preparedness
- Response

Illustrations



Postfolio of

CT-01 Address spontaneous volunteers

CrowdTasker supports <u>volunteer</u> managers and incident commanders by offering a lightweight mode of registration and low barrier to entry for spontaneous volunteers that are not officially affiliated with the <u>organisation</u>.

Registration of volunteers is implemented as self-service sign-up via the smartphone application. Volunteers can create an account easily, by providing an email address and password. Later, they can provide information about their skills via a profile page. This information may also be vetted and validated by volunteer managers to provide an indication of trust in the volunteer's profile.

Alternatively, volunteers can use the social media interface of CrowdTasker (provided via chatbots) as initial means of signing up with an even lower barrier to entry. By starting a conversation with the CrowdTasker chatbot, they can sign up to receive information and tasks and provide profile information, similar as in the smartphone application, but in an environment that they already use and are familiar with.

Related CM functions

- · Provide communications with volunteers
- · Maintain registers of volunteers
- · Establish organisation for spontaneous volunteers

CT-02 Interact with existing informal volunteers groups

Spontaneous volunteers often use social media as infrastructure for self-<u>organisation</u> and managing their participation as a group. Social media networks have an especially low barrier to entry, as many people are already familiar with their use and mode of operation. Therefore, social media represents an attractive channel for guiding efforts of spontaneous volunteers.

CrowdTaskers community module offers volunteer managers an interface with self-organised groups that is easily established by adding the CrowdTasker chatbot to the group. Subsequently, the group can receive information about the

▼ REFERENCES



DRIVER+ Trial 3 -AUSTRIA

DOCUMENTATION

PDF export

CONTACT

Trial Description

The main objective of Trial 3 is t

▶ GAPS

OBJECTIVES

Overarching scenario

The central area of Austria has been struck by a heavy earthquake and subsequent heavy rains! The local region of Eisenerz (in Styria, Austria) is one of the most affected with missing persons, casualties, collapsed buildings, blocked roads, and endangered industries working with hazardous substances. Trial scenario simulates the large-scale response to the crisis involving the national emergency response organizations, international assistants and a large amount of spontaneous volunteers.

SCENARIOS

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Trial

Crisis size

Regional Local

Crisis Cycle Phase

Preparedness: Response Recovery

Trial Location

Austria

Trial illustrations



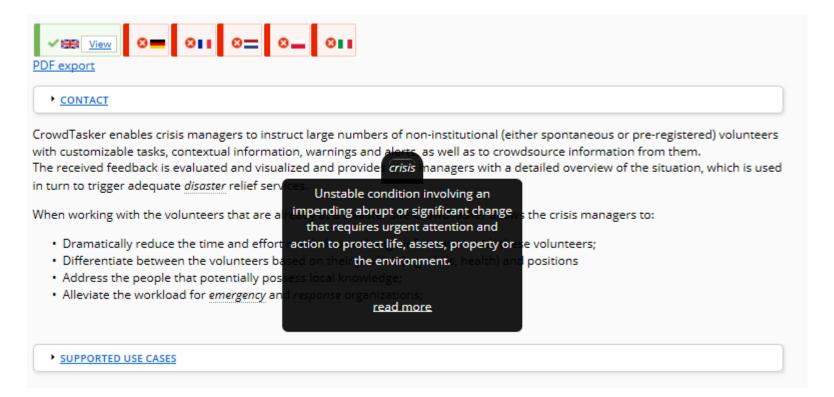
- RESEARCH QUESTIONS
- TRIALED SOLUTIONS

Portfolio of Solutions

LANGUAGE AND TERMINOLOGY SUPPORT



ENHANCING A SHARED UNDERSTANDING IN CRISIS MANAGEMENT



CRISIS MANAGEMENT INNOVATION NETWORK EUROPE

KEY MESSAGES / UNIQUE SELLING POINTS





Community of Practice with the aim to:

- LinkedIn for Crisis Management Innovation in Europe ('One-stop shop')
- Foster innovation through multistakeholder and cross-sectoral interaction
- Contribute to an enhanced understanding of Crisis Management in Europe

JOIN HTTPS://WWW.CMINE.EU

CMINE ADDED VALUE

ONLINE COMMUNITY PLATFORM & FACE-TO-FACE MEETINGS



Fostering multi-stakeholder & cross-sectoral interaction

Facilitating the uptake of research and innovation

Evolving into a pan-European hub for Crisis Management Innovation

Providing visibility & networking opportunities to the CM community

SELF-ORGANISING VIA THE CMINE PLATFORM

FIRST CMINE THEMES





Cross-cutting activities

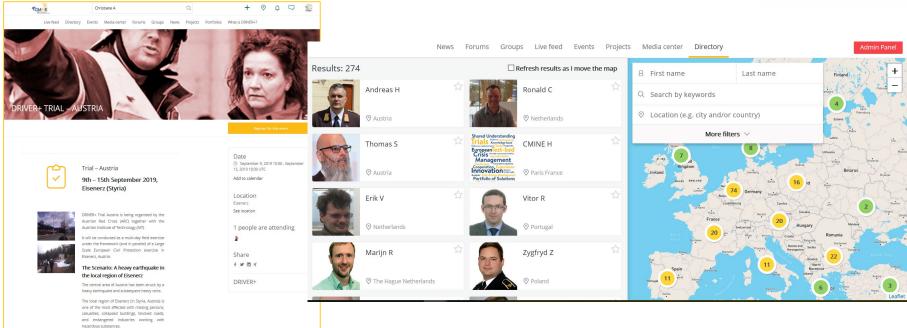
- Standardisation
- Competition to identify crisis management solutions with highest innovation potential
- CMINE is open for other ideas

GLIMPSE INTO CMINE

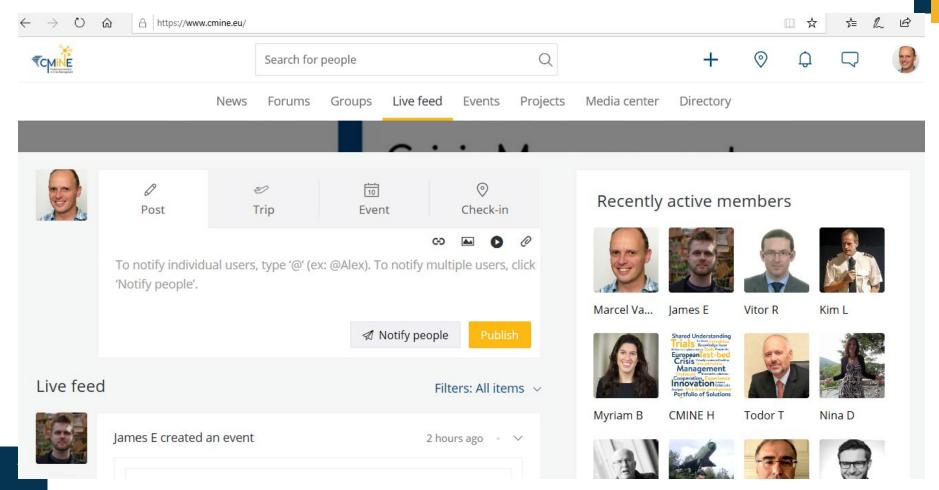
Events

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CMINE SNAPSHOT



CMINE SNAPSHOT

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RESILOC H2020

Frankfurt, Germany

The RESILOC H2020 team is working to support local...



NO-FEAR

Novara, Italy

Network Of practitioners For Emergency medicAl ...



FIRE-IN

Aix-en-Provence, France

RE-IN has been designed to raise the security level o...



BroadWay

Brussels, Belgium

BroadWay is Procuring Innovation activity to ...



EUROPA THAT PROTECTS - ...

France

consolidate EU by CP reinforcement



TERRIFFIC



beAWARE



EXUS



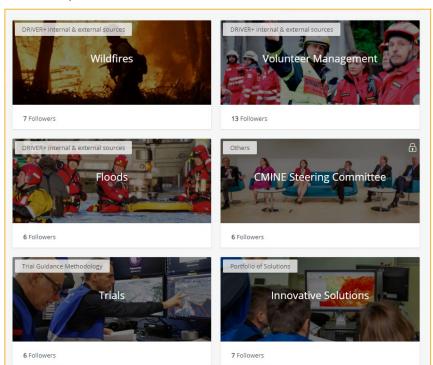
DRIVER+



HITEC Luxembourg

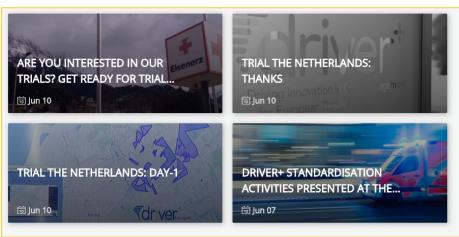
CMINE SNAPSHOT

Groups





News



VALUE FOR IFAFRI

Postfolio of Solutions

PORTFOLIO OF SOLUTIONS

- Overview of crisis management functions and gaps linked with relevant solutions
- Easy search option
- Use case information from solution providers
- Experiences from practitioners
- Link with the Projects Explorer and Gaps Explorer (DRMKC)
- Link with CMINE to facilitate the exchange of information and experiences regarding solutions
- Varying TRL levels, including solutions emerging from research proje
- Strong candidate host: Disaster Competence Network Austria / DCN



VALUE FOR IFAFRI

CMINE - POWERED BY THE EC



- Not restricted to Europe
- Connecting people, projects and networks
- Link with PoS to facilitate the exchange of information and experiences regarding solutions
- Platform to generate new ideas and create new opportunities and collaborations
- Facilitates dissemination and communication
- User friendly, good interface
- Up to date technical functionalities
- Annual fee to Hivebrite is €20,000
 - NB: till April 2022, the fee is covered by the EC / DRIVER



CONTACT REACH 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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