

CALL FOR APPLICATIONS: Submission documents



Are you **DRIVING INNOVATION IN CRISIS MANAGEMENT**? Are you developing and deploying **SOCIO-TECHNICAL SOLUTIONS**? Do you provide **INNOVATIONS** being a game changer for operational, tactical and strategic decision makers?

If you can answer the above questions with yes, then please share your innovations with the **CRISIS MANAGEMENT** community.

DEADLINE FOR SUBMISSION: 2nd of January 2018



Who are we?

In 2014, dedicated practitioners' organizations, research institutes, industries and SMEs teamed up to drive innovation in Crisis Management for European resilience.

By 2020, our goal is to valorise the wealth of European innovation and science in Crisis Management, by assessing and delivering solutions that can be used and combined to address different types of large-scale crises. Your participation in DRIVER+ activities is important to us and will help us to align with and to follow-up on relevant policies, challenges, gaps and community needs faced within the wide spectrum of thematic areas dealing with Crisis Management. To maximise the impact of European Research and Innovation in Crisis Management, and to ensure that our trials and events are conducted taking into account your expertise and the technological state-of-the-art, we warmly invite you to take part in our activities.

Within the project, we will conduct a series of trials, which investigate innovative solutions under simulated crisis conditions. We invite selected submissions to this call for application to participate to one of these events. The next section will give insights on the setting for the trial you can apply to by this call.

Why should you take part?

Participating in the DRIVER+ portfolio of solutions features great opportunity to spread out your product to the European Crisis Management community. Within the trials, you will be in contact with a large group of actors who are working and researching in the domain. Thereby, your solution gains visibility to a wide audience not only within DRIVER+ but also, as part of the portfolio of solutions, to other interested parties in and beyond Europe. The trials furthermore create a controlled environment simulating a crisis scenario to test and assess solutions, which are currently under development, providing you with new insights to advance in the design.

Solutions - What are we looking for?

A solution is a building block that contributes to a crisis management function. Solutions can be technologies, tools, methods, concepts, or recommendations that regard potential technical, organizational, procedural, legal, policy, societal, or ethical improvements to the European Crisis Management legacy.

Trial Scenario

An error occurring during maintenance of a chemical plant incapacitates a control station for pipeline pressure causing rupture in a toxic chemical pipe, which releases a massive amount of a fluid mud like chemical.

Initial Crisis Situation

During maintenance work on a chemical plant in a border region in Poland, an error in the maintenance causes a control station to short-circuit. This leads to an unsafe build-up of pressure in the connected pipelines running between the main plant and a sub plant several miles away. The pipe that carries a liquid, mud like form of a toxic chemical eventually bursts, spilling its contents.

Developments from Initial Situation

The broken control station prevents a quick intervention and the increased pressure causes approximately one million cubic meters of toxic, mud like, fluid as a massive 1-2 meter high wave that floods nearby localities in a matter of minutes. Included in the path of the spill are several villages and towns, where initially 15 people die and 200 people get severe toxic injuries.

The eventual 60 square kilometers of affected land include a river that crosses the border into neighboring countries. This river is used as water intake for various industries, agriculture and fresh water companies, resulting in destroyed crops, toxic injuries to livestock, and disturbance in the water supply causing immediate water shortage. The incident requires deployment of evacuation forces as well as a high number of decontamination forces from multiple countries to deal with the increasing number of toxic injured people.

Trial Setup

Due to the widespread effects of this kind of incidents and the limited possibilities to conduct this kind of exercise in real-life conditions, the planned demonstration will have the form of 2-day, international table-top trial. The aim of the trial is to simulate coordinated local, regional, national and international level actions, whose purpose is to counteract the disaster effects. The scenario will be prepared inside virtually simulated countries to show the most serious effects of considered assumptions of scenario.

Actors in the Trial

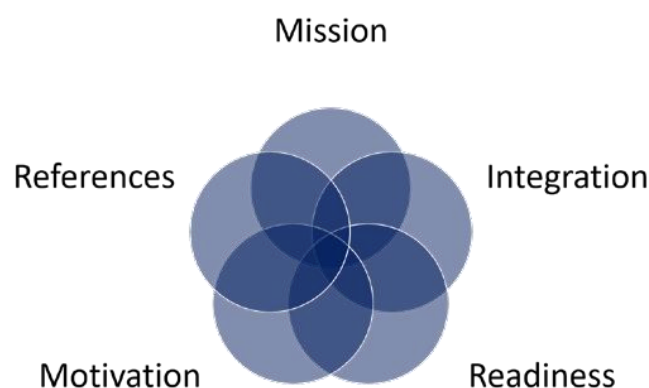
The scenario will require a commitment of stakeholders (end-users) from every crisis management level (local, regional, national and international). Examples of such stakeholders are representatives of ministry of infrastructure, state fire service, crisis management experts, representatives of chemical and water sectors, representatives of non-government organizations (volunteers), representatives of decontamination institutes, and representatives of other institutions which are responsible for response during similar situations. Actions will be taken by these stakeholders in realistic information environment, based on currently available means for chosen country, crisis management plans, rescue procedures and good practices of participants.

Application Steps

Step 1: Answer the evaluation criteria

Please give short and concrete answers to the following questions with regard to the above scenario description. Please do not discuss implementation details or any technical aspects, which are not defining the contribution. You will have the chance to address technical details in the next section.

[Up to 300 words each]



Mission	How does the solution contribute to crisis management?
Integration	How is it integrated into the existing crisis management operations?
Readiness	How mature is the solution and has it been tested or proved?

Motivation	How does the solution address problems of practitioners?
References	Which references on the provider's experience and solution application exist?

Step 2: Provide additional details

Please give a short and concrete answer to the following questions. The answers provided here will not be evaluated in regard to a selection for the DRIVER+ trials but serve a better documentation of solutions. Provide attachments if needed.

[Up to 300 words each]

Resources	Which resources are needed to operate the solution?
Know-How	Which expertise is needed to operate the solution?

Platform	On which platforms (e.g. technical/organizational etc.) is the solution available?
Technique	On which technique (or technology if applicable) is the solution based on?
Investment	Which investments are necessary to deploy the solution?

Stage of Innovation	Technology Readiness Level
Stage 1: Concept	TRL 1: Basic principles observed and reported
Stage 2: Research and Development	TRL 2: Technology concept and/or application formulated
Stage 3: Initial Piloting	TRL 3: Analytical and experimental critical function and/or characteristic proof of concept
Stage 4: Early Adoption/Distribution	TRL 4: Component and/or breadboard validation in laboratory environment
Stage 5: Market Growth	TRL 5: Component and/or breadboard validation in relevant environment
Stage 6: Wide-scale Adoption	TRL 6: System/subsystem model or prototype demonstration in a relevant environment
	TRL 7: System prototype demonstration in an operational environment.
	TRL 8: Actual system completed and qualified through test and demonstration.
	TRL 9: Actual system proven through successful mission operations.

Step 3: Provide attachments (optional)

To support your answers in step 1 and 2 you can provide attachment in form of pictures and documentations. Please be aware that the attachments do not replace your answer and may only support explanations given above. All attachments need to be packed into one archive. (supported file format: .zip, maximum file size: 500MB)

Step 4: Submit application

Upload the completed PDF form and attachments (if included) to the submission tool EasyChair following the link below.

<https://easychair.org/conferences/?conf=1stdtss>

Submission deadline: 2nd of January 2018

(Submission opens: 7th of December 2018)

Review Procedure

Every solution will be evaluated according to the above criteria – Mission, Integration, Readiness, Motivation and References – by at least three independent evaluators. The review results will be send to you by January 31st 2018. In case your solution is selected as candidate to participate in the trial, you will receive an invitation to a coordination meeting, taking place February 26 – 27, 2018 in Warsaw, Poland.

In order to facilitate your contribution to the trial, your expenses directly related to your contribution to the DRIVER+ Trial may be partially reimbursed. When selected for the trial, you will be asked to indicate whether you require any reimbursements for your foreseen contribution, and, if yes, for which expenses (amount and description). The coordination team decides whether your request will be granted.

Contact

In case of questions or any other inquires to the call, please feel free to contact us
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