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Welcome to this edition of the TERRIFFIC Newsletter. We have two important events coming up

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operational CBRNe practitioners. Then in September 2021, we will be holding our final Public Workshop, at which all of the results and successes of the project will be shared with CBRNe experts. Details will be published a bit nearer the time.

in the next few months - the Final Trial in France and a tabletop field exercise in Slovakia. This

will be both an exciting and a crucial time for us, as we test the integrated system with

Thank you for continuing to support our project and of course you can always visit www.terriffic.eu for the latest news and announcements in between newsletters.

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Semi Public Workshop



academia. All of the project partners presented on their specific areas of work, building together to tell the TERRIFFIC story to the audience. Interactive Q&A sessions were held throughout the meeting, enabling a wide range of questions to be answered. The key topics covered in the programme included: Why is the TERRIFFIC project important and why is it different? 'Missions for the System and challenges to be faced'. • A User Story. How the TERRIFFIC System can benefit the CBRNe community – Lt. Col. Denis Giordan, SDIS73

• How innovative detection technologies can deliver a step change in RNe response

sensors on coordinated drones & robots

management software

- gamma cameras technology MODES van and detectors

Innovative plume modelling technology

 UAV/UGV + camera/sensor • More accurate calculation of 3D propagation model thanks to real-time acquisition with advanced sensors

• Improved operational situational awareness using augmented reality and incident

• Fast access to threat information & collection by integration of advanced gamma camera

- Integration of technologies within the TERRIFFIC System Evaluation of the TERRIFFIC System
- A further two day integration session was held on 29th and 30th March in Chambéry, France to
- allow the technical teams to test the various components of the TERRIFFIC System with real radiation sources. This proved to be extremely useful and one final integration session is planned before the Final Trial and Field Exercise.

The Final Trial will be an important opportunity to evaluate the impact of the TERRIFFIC system with operational practitioners, who will first be fully trained in

Final Trial



After the Final Trial, a tabletop and field

Republic, organised by project partners

practitioners are involved in managing the

pandemic, but is likely to be in September.

TL&A and ISEMI. The final timing is of

course, like everything else, Covid-

dependent, particularly as many

exercise will be held in the Slovak

the Savoie region, SDIS73, will put the system through its paces with challenging scenarios and using real sources. Lt. Col. Denis Gordon of SDIS73 has been involved throughout the project and we are very grateful to him and his team for their support and collaboration.

how to use the technology. Organised by

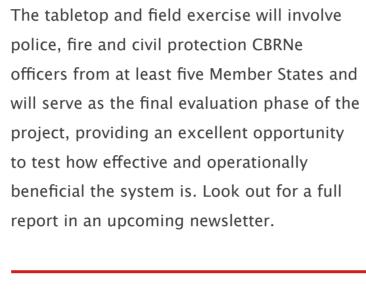
project partner TL&A, the Final Trial will be

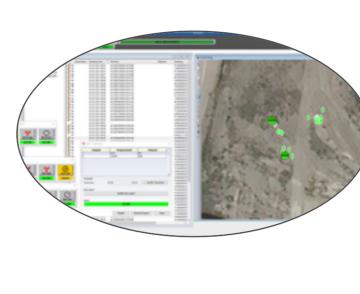
held in Chambéry, France, hopefully in June

or July, but this does depend on the state of

CBRNe officers from the French fire service in

the pandemic at that time.





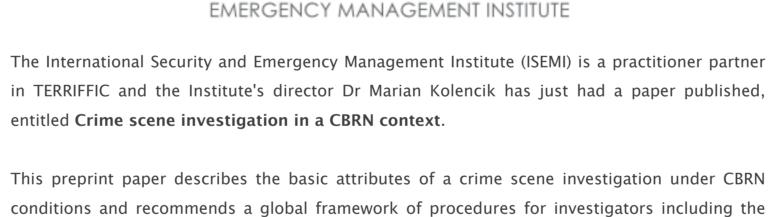
TERRIFFIC system objectives

Infographic video showing how the data is collected from within the hot zone



March 2021





ISEMINSTITUTE

INTERNATIONAL SECURITY AND

use of new technologies. It represents a basis for future Biological and Chemical Crime Scene Management Guidance Manual for Law Enforcement planned to be developed by international team of experts under the Umbrella of UNICRI.

https://www.researchgate.net/publication/350823604_Crime_scene_investigation_in_a_CBRN_c

<u>ontext</u> **Partner Profiles**

ceatech



applications, development for current and future Nuclear Power Plants, Homeland Security, Defence). As part of the TERRIFFIC project, the CEA-List institute is developing two state-of-the art instruments for improving the response of emergency operators during a radiological event:

• A miniaturised gamma camera, currently the world's smallest coded aperture gamma

imager, developed to provide an accurate and fast localisation of radioactive hotspots in a

the main nuclear industry players (EDF, ORANO, Mirion Technologies, BERTIN Technologies,

NUVIA...). It has a long and renowned expertise in various fields, addressing all nuclear and

radiological applications (nuclear waste packages characterisation, decommissioning

scene. The very small and light form factor of this gamma camera allows its embedment on light robotic vectors. This enables a quick and exposition-free intervention, giving an image of source location and threat activity within a few seconds after deployment. • A unique beta contamination probe, allowing measurement of beta contribution in a high and fluctuating gamma background. This measurement system provides contamination information and GNSS information on their location, sent every second to a command and

control system, without any interference from surrounding gamma background.

Both of these technological breakthroughs, combined with other TERRIFFIC technological

developments, significantly improve the capability of first responders to automatically gather

quick, reliable and precious information on the radiological status of an event area, whilst also

Related CBRN Projects

minimising the exposure of first responders.

FOR RADIOLOGICAL AND NUCLEAR EMERGENCIES



The next joint action will take place in Palaskas (Athens, Greece), hosted by HMOD. Do you want to join us? Subscribe to our newsletter to find out more: https://including-cluster.eu.

INCLUDING







Newsletter - April 2021

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