



GIFT CBRN

GENERIC INTEGRATED FORENSIC TOOLBOX FOR CBRN INCIDENTS

CBRN terrorism remains a real threat to European countries, the most important elements of any CBRN response is ensuring the forensic investigation delivers a successful court prosecution.

The Generic Integrated Forensic Toolbox for CBRN incidents, or GIFT CBRN, consortium, funded under the Seventh Framework Programme of the EC, will develop the most advanced forensic toolbox for CBRN incidents in the world.

www.giftforensics.eu



Funded under the seventh framework programme of the EC

The GIFT consortium intends to further develop the investigative and analytical methods that are currently only used in a secure laboratory environment and instead allow them to be used at the scene of the crime. This means ensuring not only that delicate equipment can be transported to a remote location, but that it is also able to withstand the problems of a CBRN environment; such as decontamination. Through the cooperation of Europe-wide CBRN research agencies, first responders, industrialists and subject matter experts the toolbox will provide enhanced capability in three areas of CBRN forensics;

1. Procedures, sampling methods and detection of CBRN agents at the crime scene,
2. Traditional forensic laboratory methods for dealing with contaminated evidence,
3. Laboratory methods for profiling CBRN agents released at an incident.



The project has been broken down into nine work packages:

WP1: The management work package, it keeps the entire consortium on track and liaises with the Commission, amongst other things.

WP2: Composed of threat assessments, gap analysis and toolbox design. It aims to define the forensics community's needs, once this is completed it will allow identification of what needs to happen to allow responders to perform their tasks safely, quickly and properly.

WP3: Two central themes, one being the development of protocols for use in the crime scene and the other is the development of investigative methods for when the evidence is contaminated with chemical, biological or radiological agents.

WP4: This will develop procedures and methodologies to enable traditional forensic science (DNA, fingerprint and electronic devices) to be performed on CBRN contaminated exhibits.

WP5: This work package looks at the agent itself, whether we can further develop analytical procedures on the agent and also whether we can identify signatures in the agent that could lead to methods of production and where key elements originated from.

WP6: This WP will focus on the integration of the forensic toolbox and will also link with on-going FP7 and other nationally funded projects that are involved with CBRN detection.

WP7: This work package validates the procedures and methods developed in WP3, 4 and 5.

WP8: This WP will study the legal, ethical and societal aspects of the project in order to provide stakeholders with the appropriate guidance to avoid any negative impact during the project, execution or in an eventual future deployment based in this research.

WP9: Is the dissemination work package. This will create a CBRN forensics community that will be able to help guide and validate the whole project.

The GIFT consortium aims to address the issues of conducting forensic analysis in a contaminated environment by developing novel methodologies and technologies which will enable forensic investigators to perform enhanced analysis at the crime scene, some key innovations will be:

1. Novel sensors for chemical and biological agents
2. Detection of alpha-emitting particles using UV
3. Development of decontamination methods that won't impact on forensic traces
4. Micro-analytics on-chip to detect agents of interest
5. Attribution signatures for C, B & R agents
6. Education and training curriculum



The Consortium

The consortium consists of 21 parties, from nine different European member states. They are, the NFI (NL), Tyndall University (IRL), TNO (NL), RIVM (NL), M2L (UK), Falcon (UK), Fera (UK), AWE (UK), STUK (FIN), FOI (SWE), SKL (SWE), Analyzed IQ (IRL), NICC (BE), RMA (BE), Space Applications (BE), JRC-ITU (EC), CEA (FRA), Eticas (ESP), RAMEM (ESP), LQC (ESP), and NanoBiz (Tr).

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