


Forensic Laboratory for in-situ evidence analysis in a post blast scenario	
Funded under	FP7-Security
Start date	1 March 2012
End date	28 February 2015
Objective	
<p>"An improvised explosive device (IED) post-blast scenario is a vast area where massive and diverse evidences must be searched, collected and transferred for analysis to a distant reference laboratory. The evidence collection is undertaken without any feedback from the distant data repository; so that large volumes of data are unnecessarily generated in the distant laboratory due to the analysis of no relevant evidences. These complex tasks involve tremendous amounts of material and human resources. FORLAB will deliver a novel systematic methodology for optimizing the evidence collection. FORLAB approach shall maximize the speed, reliability and accuracy of the process and ultimately make a significant step forward in the battle against terrorism. The key innovation is the establishment and maintenance of a dynamic, real-time self-adaptable feedback loop between the data collection process at explosion scene and the data repository, with the aim of reducing the number of collected samples, improving the capability to recreate the scenario and fine-tuning the screening process. Specifically, the proposed system will consist of:</p> <ul style="list-style-type: none"> (i) analytical technologies for in-situ sample screening, (ii) communication and positioning modules for localizing the information and transporting it further, (iii) and Command and Control Centre(CCC) with 3D scene recreation capability. <p>The laboratory would be deployed in the affected area and the technicians will survey the scene with the screening tools making preliminary analysis of evidences. Bi-directional radio links between the scene and the CCC will communicate the obtained results to the latter in real-time. In the CCC, a 3D recreation of the scene will occur which will integrate the preliminary in-situ analysis. The commander in the centre will obtain a global view of the scene and the evolution of analysis and will provide real-time feedback to the field technicians with instructions on the next actions of the investigation."</p>	
Cordis website	https://cordis.europa.eu/project/id/285052