

CRTI funds Mobile Detect for “Special Nuclear Materials and Radiological Detection, Locating and Tracking”

On March 5, 2009 the Canada’s Department of National Defence (DND) issued a press release announcing it is “investing more than \$35 million for 24 new research projects to enhance Canadian security. These projects will strengthen Canada’s ability to deal with potential chemical, biological, radiological-nuclear and explosives threats.”

Mobile Detect Inc. will “lead the development of the next generation of radiation surveillance networks able to detect, characterize, and localize threats”. The funding is from the Centre for Security Science (CSS) and CRTI (CBRNE Research and Technology Initiative) and is for CRTI Project 08-0208TA “Special Nuclear Materials and Radiological Detection, Locating and Tracking”.

Mobile Detect Inc.’s partners in this Project are Atomic Energy of Canada Ltd., Canadian Nuclear Safety Commission, Defence Research and Development Canada, Foreign Affairs and International Trade Canada, GE Global Research, Health Canada, McFadden Technologies Ltd., Ottawa International Airport Authority, Royal Military College of Canada, San Diego International Airport, and Transport Canada.

The Project will pilot an end-user trialed system for Special Nuclear Materials (SNM) and Radiological Threat Agent (RTA) detection, characterization, localization and tracking in a real-time radiation surveillance network. The system will have integrated video imaging capabilities. GE will supply detection equipment and Mobile Detect will integrate with the existing Airport RadWatch system at the Ottawa International Airport.

Partners will co-design, build and test SNM/RTA detection and suspect imaging capabilities resulting from the further development and integration of stationary standoff and handheld CZT radiation detectors, video acquisition and an existing radiological sensor network into the operational security system of an airport.

Real-time actionable information (including isotope identification, location and suspect imagery) will be provided through client software alarming and email/SMS alerting, will extend the capabilities of security operations, responders and decision maker, and will support innovative CONOPS.

Operational trials with end-users will optimize and evaluate the system in the demanding, crowded airport environment providing a validated system design embodiment and a CONOPS/SOPs model suitable for deployment in airports worldwide.

This project represents the forth investment in projects led by Mobile Detect Inc. by the Government of Canada, Defence Research and Development Canada (DR&DC), CSS and CRTI. The other investments are:

CRTI 0105TA - Mobile Real-Time Radiological Surveillance Network
CRTI 03-0018TD - Airport Radiological Surveillance System
CRTI-07-0217TA - Explosive and Radiological Transit Security

Mobile Detect Inc. provides unique Canadian technology delivering cost-effective counterterrorism solutions to protect airports, critical infrastructure, and communities from radiation.

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