



## **NEWS RELEASE**

387 Technology Drive  
College Park, MD 20742  
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Contact: Dr. Carole Teolis  
Phone: (+1)-301-405-5836  
Email: [teolisc@trxsystems.com](mailto:teolisc@trxsystems.com)

### **Presentation of the TRX Sentinel to the DHS S&T Stakeholder's Conference**

**College Park Maryland – June 5, 2008:** TRX CEO, Dr. Carole Teolis, and Founder, Dr. Gil Blankenship, presented the TRX Sentinel™ first responder personnel tracking and location technology at the 2008 Homeland Security Science & Technology Stakeholders Conference held in Washington DC this week. The Science & Technology Directorate is the gateway into the Department of Homeland Security (DHS) for innovative technologies. The conference focus was on the future of S&T, highlighting partnerships for a safer nation being built in the U.S. and around the world.

The TRX Sentinel™ first responder tracking system development was started under DHS/TSWG funding in 2004. The goal of the DHS first responder tracking program is the development of a tracking and location device that provides accurate (<1m) 3-D position regardless of available GPS coverage, local environment (urban or rural), weather conditions, or whether subjects are inside or outside of a building.

The TRX Sentinel™ System is comprised of two basic components: (i) a small rugged Personal Locator Unit (PLU, about the size of a deck of cards) that is worn by the first responder; and (ii) a Sentinel Command Station (SCS, hosted in a laptop computer) positioned on the fire truck or incident commander's vehicle. The system can support multiple command stations and track an unlimited number of personnel simultaneously. The mobile units form a mesh network that extends the coverage range of the system. The location information for all individuals is integrated and presented on a geographical information system display at the SCS that provides an unprecedented level of situational awareness to incident commanders. The GIS includes satellite imagery, building outlines, and building floor plans (when available), enabling an Incident Commander to have multiple diverse views of the event. The Sentinel™ System supports many additional features, including the ability to provide automatic distress detection as well as manual 2-way alarming and the transmission of evacuation orders. It can also monitor vital signs and detect and report distress conditions.

TRX's presentation highlighted the Sentinel™ prototype system which can effectively track individuals inside multi-story buildings with no special instrumentation or preparation of the incident site required. TRX's innovative map generation software was also presented. The map generation software enables the responders to generate a floor plan if one is not readily available when first responders arrive on scene. These floor plans can greatly improve situational awareness as well as improving tracking capability. In addition to superior incident management of resources, the Sentinel™ System's precision location and health information for

deployed personnel permits a dramatic decrease in rescue time for distressed or downed firefighters.

The Sentinel™ research and development has been supported by the National Science Foundation, Technology Support Working Group, Department of Homeland Security, the Laboratory for Physical Sciences, the Maryland Fire and Rescue Institute (MFRI), the Center for Fire Safety Research and Development (CFSRD), and the State of Maryland.

### **About TRX Systems**

TRX Systems, Inc., an employee owned, high technology Maryland corporation, is a leading innovator in the development of personnel and asset tracking solutions. TRX's products include the TRX Sentinel™ Location and Monitoring System for first responders. The Company provides research and development services to many agencies of the US Government including the US Army, the National Geospatial-Intelligence Agency, and the National Science Foundation. TRX is an active participant in the State of Maryland's programs, including the Maryland Industrial Partners (MIPS) program with the University of Maryland, the Maryland Technology Development Corporation (TEDCO), and with the University of Maryland Technology Advancement Program (MTECH TAP).

TRX Systems is headquartered in College Park Maryland, near the University of Maryland.

For additional information visit TRX's web site: [www.trxsystems.com](http://www.trxsystems.com)