

# DHS Science and Technology Directorate

## Training and Performance Optimization Portfolio

### Enhancing Operational Efficiency & Effectiveness

The efficiency and effectiveness of any first response effort is directly related to the preparedness, robustness, and adaptability of those individuals involved. Improved training and the associated materials, methods, tools and technologies used by our nation's first responders and those on the front lines in the Homeland Security Enterprise leads to increased operational capabilities in the field and results in more efficient and effective DHS end users, federal, state and local stakeholders, and the public.

### Innovative Training and Operational Technologies

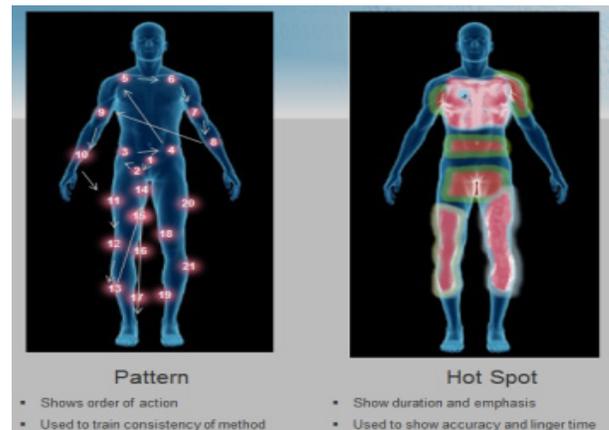
This portfolio of projects addresses needs associated with primary tasks of first responders and end users that are common across the Homeland Security Enterprise such as pat downs, ID verification, tracking, screening, and suspicious behavior detection. Expertise developed by leveraging modern technologies that complement traditional training methods, tools and techniques allows end users to focus on each mission critical task, develop associated skills, and bolster resilience and preparedness. These factors also positively impact job satisfaction and public perception.

S&T works across DHS and the first responder community to identify common capability gaps and operational needs that can be addressed through improved training methods, tools and technologies. These DHS end users and first responders require targeted training that leverages the latest cutting edge training methods and innovative technologies to ensure their skills are flexible to respond under a variety of conditions, thereby making them resilient. Improved training in areas such as decision making in a stressful and uncertain environment, and underlying components of decision making are critical. More often than not, DHS and first responder technologies include the necessary integration of human and systems, whereby the collective synergy must be optimized to respond rapidly and appropriately in the face of adversity.

### Enhancing Performance & Operational Capability

Providing DHS Enterprise end users and first responders with improved training methods, technologies and tools will result in operational performance increases in effectiveness and efficiency. Resilient systems are designed to reduce the likelihood of and to recover from disasters – human or naturally caused catastrophes.

Improving training materials, methods, and tools, and maximizing the performance of individuals involved in response to disasters, critical infrastructure protection and law enforcement such as emergency managers, first responders as well as the general public results in more resilient communities. Performance optimization through improved training is directly correlated to increased preparedness, robustness, and adaptability resulting in more resilient first responders and a more effective and efficient homeland security enterprise.



Pat down training tools will provide for varied gender and body types as well as instant, useable, objectively measured information on pat down coverage, sequence of search, effectiveness, and professionalism.

### Upcoming Milestones and Deliverables:

- Enhanced Threat & Risk Assessment Tablet Application-FY16 Q2
- Pat Down Suit Training Tool-FY16 Q4
- Expert Tracker/Sign Cutting Training-FY16 Q4
- Medical Metrics Suite demo for FLETC-FY16 Q4

### Performers and Partners

- Design Interactive, Inc.
- Federal Law Enforcement Training Center
- Transportation Security Administration
- U.S. Customs and Border Protection
- U.S. Department of Justice Bureau of Prisons



**Homeland  
Security**

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To learn more about Training and Performance Optimization projects, please contact Darren P. Wilson, Program Manager, at [Darren.Wilson@hq.dhs.gov](mailto:Darren.Wilson@hq.dhs.gov).