



CTTSO

Combating Terrorism Technical Support Office

# Improvised Device Defeat



Advance Planning Briefing to Industry

17 February 2009



# Mission

**Identify, prioritize, and execute research and development projects that satisfy mission critical needs, fill capability gaps, and address interagency requirements for advanced technologies to safely and effectively defeat improvised terrorist devices.**



# Subgroup Membership

- **Department of Defense**
- **Department of Homeland Security**
- **Department of Justice**
- **The Intelligence Community**
- **National Bomb Squad Commanders Advisory Board**
- **Pentagon Force Protection Agency Bomb Squad**
- **State and Local Bomb Squads**
- **U. S. Capitol Police**



# 2008 Success Story

- **Developed the Power Hawk Rescue System as an access tool for the ANDROS F6A robotic platform**
  - **Operator can drop Power Hawk to use gripper and pick it up again for further use**
- **Air Force purchasing 50+ systems**
- **Available through NG Remotec**





# FY10 Requirements

- **R2466 Distance Measuring and Aiming System for Robotic Platforms**
- **R2467 LVBIED Precision Identification and Disruption Tool**
- **R2468 Manual Manipulation Tool Kit**



# R2466 Distance Measuring and Aiming System

- **Develop a dual function device for measuring the distance from a disruption tool to the intended target, as well as providing a precise aim-point for the disruption tool**
- **Must be lightweight, and mount to the weapon arm of the robot without inhibiting normal function**



# R2466 Distance Measuring and Aiming System (*cont'd*)

- **Must afford plug-and-play integration into the robotic platform without modification of the platform's electronics package**
- **The total cost of the system to end-users not to exceed \$1,500**



# R2467 Precision Identification and Disruption Tool

- **Develop a tool to provide bomb technicians the ability to view possible IED components in the rear cargo area of a commercial truck, cargo van, or trailer**
- **Needs to have the following:**
  - **Low-cost, expendable video camera with zoom and low-light capability**
  - **Mechanism by which to place and detonate a small explosive charge**



# R2467 Precision Identification and Disruption Tool (*cont'd*)

- **Must be:**
  - **Lightweight**
  - **Powered by commercially available, rechargeable batteries**
  - **Offer plug-and-play operability**
- **Must work on the Remotec HD-1 or equivalent-sized robot**



# R2468 Manual Manipulation Tool Kit

- **Develop a hand-entry tool kit for bomb technicians to aid in diagnostics, analysis, and manipulation of internal IED components**
- **Tools must be operable through a minimum two-inch opening, to a depth  $\geq 24$  inches**
  - **Must be nonmagnetic, non-sparking, and nonconductive**
  - **Include tools to cut 16 gauge and thinner wire**
  - **Have both locking and non-locking grippers**



# R2468 Manual Manipulation Tool Kit (*cont'd*)

- **Needs to have hands-free, variable intensity and wavelength light source(s), and provide an assortment of long-reach DC-current probes**
- **User guide needs to be provided by developer**



# Contact Information

**BAA Specific Questions:**

**09-Q-4554@tswg.gov**