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1. H-SB013.2-001: Bulk Currency Vapor Detection in Confined Spaces

Release Date: 04-02-2013Open Date: 04-18-2013Due Date: 05-22-2013Close Date: 05-22-2013

Each year, Mexican cartels smuggle approximately $28 to $39 billion from the United States to Mexico through the 417 “official” border crossings between the two countries. Estimates indicate that only 25% to 50% of that money is processed and laundered through financial institutions and instruments other than cash. Congress passed legislation increasing the penalties for smuggling cash ...

SBIR Department of Homeland Security

2. H-SB013.2-002: Software Based Roots of Trust for Enhanced Mobile Device Security

Release Date: 04-02-2013Open Date: 04-18-2013Due Date: 05-22-2013Close Date: 05-22-2013

Communication and commerce is shifting to smart phones, tablets and other mobile devices. With this shift, it is important to look at methods for improving the security of these devices and the applications that run on them. This is aided by having a firm foundation from which to build security and trust. Highly trustworthy, tamper evident components, called Roots of Trust (RoTs), that perform vit ...

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3. H-SB013.2-003: Lost Person Locator for First Responders

Release Date: 04-02-2013Open Date: 04-18-2013Due Date: 05-22-2013Close Date: 05-22-2013

Across the United States on any given day there are as many as 100,000 active missing person cases, resulting in thousands of “lost person” searches each year. The frequency of “lost person” searches conducted by First Responders (Law Enforcement, Fire/Rescue, Search and Rescue) is increasing but changing from primarily lost children (including those with autism) to people ...

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4. H-SB013.2-004: Structural Collapse Prediction Technology

Release Date: 04-02-2013Open Date: 04-18-2013Due Date: 05-22-2013Close Date: 05-22-2013

Numerous first responders have been killed in the line of duty as a result of structural collapse, from the 343 firefighters who lost their lives in the September 11, 2001 World Trade Center collapse to the firefighters and other first responders, and civilians who are killed or injured performing their regular duties from collapsing structures, including incidents involving single family dwelling ...

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5. H-SB013.2-005: Commodity Goods Counterfeit Detection

Release Date: 04-02-2013Open Date: 04-18-2013Due Date: 05-22-2013Close Date: 05-22-2013

Counterfeiting is a serious problem impacting customers and producers in the global economy. There are two separate issues - the economic impacts from purchasing a counterfeit consumer retail product, and the health risks associated with a consumer purchasing and consuming a counterfeit pharmaceutical product. This effort focuses on the consumer retail products only, as the detection methods for t ...

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6. H-SB013.2-006: Management of Mass Casualty Triage

Release Date: 04-02-2013Open Date: 04-18-2013Due Date: 05-22-2013Close Date: 05-22-2013

Current mass casualty triage patient tracking techniques rely on paper forms, analog voice communications, and colored vinyl tape or tags. At best, these techniques may also include the use of radio-frequency identification (RFID) tags. Although all these techniques are robust, have a long shelf life, and do not require any type of external power source, they are not scalable for very large incide ...

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7. H-SB013.2-007: Affordable Non-Destructive Anomaly Detection for Perceived Hollow Spaces

Release Date: 04-02-2013Open Date: 04-18-2013Due Date: 05-22-2013Close Date: 05-22-2013

The Department of Homeland Security (DHS) has identified a need to detect narcotics, weapons, explosives or other contraband smuggled over the border, onto planes, or carried into public venues while concealed in hollow spaces such as bicycle, stroller, or wheelchair frames. Agents and officers require reliable and easy-to-use tools that can quickly provide a general primary screening of these ite ...

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8. H-SB013.2-008: Pre-Shot Sniper Detection in Urban Environments

Release Date: 04-02-2013Open Date: 04-18-2013Due Date: 05-22-2013Close Date: 05-22-2013

Currently there is no product that can reliably detect and locate, in all weather conditions that a sniper would operate in, a sniper amongst the clutter of an urban environment before they fire their weapon. Although law enforcement can establish security perimeters and control items entering the space, they are also concerned about threats from outside the security perimeters. These threats incl ...

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9. H-SB013.1-001: Radio Frequency (RF) Sensing of Personnel in Wooded Areas

Release Date: 12-04-2012Open Date: 12-20-2012Due Date: 01-23-2013Close Date: 01-23-2013

DHS is seeking innovative solutions to detect, localize and track people in wooded terrain using mesh networks comprised of low power, covert, RF sensors based on standard, inexpensive commercial off the shelf (COTS) products used widely in wireless data networks. The RF system will be cued by an imaging system that initially detects the targets of interest in the open, and the imager cues may be ...

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10. H-SB013.1-002: Hybrid Analysis Mapping (HAM)

Release Date: 12-04-2012Open Date: 12-20-2012Due Date: 01-23-2013Close Date: 01-23-2013

The goal is to develop a risk management framework with security standards that normalize analysis from each tool, facilitate vulnerability correlation to provide a more simplified view of threats from both an architecture and system perspective, improving the completeness of vulnerability analysis and results. Using static analysis tools provides only a system view of vulnerabilities and weakness ...

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