

## FY 07 New Starts

### **Tactical Service Provider (TSP) — Mobile, wireless high-throughput broadband connections over long distances**

Addresses the issues of “first tactical mile” support to mobile troops: rapid expansion of data networks through emerging high data rate, bi-directional Global Broadcast Services 'at the Halt' or 'at the Pause' to hand-held devices for delivery of large data sets that require wide bandwidth. Uses hybrid architecture of emerging, standards-based satellite communications and wireless technologies. These technologies deliver robust, lightweight, and commercially available applications, DoD tactical applications, and emerging net-centric enterprise services applications in a mobile tactical environment.

### **Mapping the Human Terrain (MAP-HT) — Visualization of socio-cultural information**

Seeks to demonstrate an integrated, open-source, spatially/relationally/temporally referenced human terrain data collection and visualization toolkit that helps combat teams understand the cultural context in which they must operate. Such understanding will help reduce explosive device incidents by optimizing the commander's operational decision-making process in a way that best harmonizes unit actions with the local culture.

### **Joint Multi-Mission Electro-Optical System (JMMES) — Counter camouflage, concealment and deception**

Provides an automated processing and targeting capability for Joint, Coalition, and Interagency wide-area surveillance needs, leveraging advanced sensors in a common turret compatible with a variety of aircraft. Addresses operators need to detect, classify, identify, and track camouflaged, concealed objects and other high-interest targets fast enough to support tactical operations and Homeland Security missions.

### **Smart Threads Integrated Radiation Sensors (STIRS) — Radiation sensors for state-of-the-art maritime interdiction and battlefield radiation detection**

Introduces current generation glass fiber gamma and neutron detection technology into woven materials that can be produced in a variety of forms. Will increase combatant commander's ability to detect and identify radiological and nuclear materials in near real-time. Provides enhanced maritime and airborne detection, stand-off detection, man-portable detection equipment, and active detection measures, while minimizing false alarms.

### **Maritime Automated Supertrack Enhanced Reporting (MASTER) — Enhanced maritime tracking**

Automatically generates and maintains vessel tracks using a full range of available data sources. Also automatically alarms and alerts users to threat conditions and vessel behavior that deviates from what is expected, and disseminates enhanced track information across security levels.

### **Internet Protocol Router In Space (IRIS) — Satellite Internet resource allocation capabilities**

In coordination with commercial satellite communications providers, implements Internet Protocol (IP) routing and dynamic bandwidth resource allocation capabilities from a geostationary commercial communication satellite, which enables cross-band, cross-beam routing. Shows scalability, “any-to-any” connectivity within the coverage of the satellite, and satellite bandwidth IP gain. Advances DoD's guidance to grow an IP foundation across the enterprise and also builds the business model and contracting processes for DoD to use emerging commercial capabilities.

### **Coalition Mobility System (CMS) — Rapidly access and coordinate Coalition movement execution**

Integrates selected, operationally relevant data from U.S. systems with data sources used by Coalition partners to establish a working Coalition environment, which meets the needs of U.S. and Coalition Task Force (CTF) decision makers. U.S. operators gain access to Coalition movement data and Coalition partners and CTF staff gain access to selected, operationally relevant information on U.S. activities.

## Late FY 06 Starts

### **Coalition Joint Spectrum Management Planning Tool (CJSMPPT) — Radio frequency coordination**

Uses advanced database and 3-d visualization tools to provide effective counter-IED jamming. Helps warfighters continue communications and other radio frequency-dependent functions in joint and coalition combat operations and stabilization and recovery operations.

### **Regional Maritime Awareness Capability (RMAC) — Collaborative surface vessel location and tracking for ungoverned maritime environments**

Globally exportable and collaborative capability that locates, tracks, and displays information on surface vessels to reduce the ungoverned maritime environments that foster free criminal and terrorist activities. Capabilities will be shared to support participating nations, Combatant Commanders, and subordinate commanders. Shows partnership-building capacity and contributes preventive capabilities so that problems do not become crises.

### **Focused Lethal Munition (FLM) — Minimum collateral damage precision-guided weapon**

Demonstrates the capability to destroy targets, while minimizing collateral damage and casualties. Incorporates two new technologies, carbon fiber warhead case and multi-phase blast explosive, to achieve a precise (sub-four meter accuracy) minimum collateral damage weapon.