Strategic Objective: Expand core capabilities in support of military interest

OVERVIEW:

To ensure tomorrow's military capabilities maintain a decisive technological edge, DoD relies on Intelligence Mission Data (IMD) (intelligence used for programming platform mission systems in development, testing, operations, and sustainment) to support acquisition programs that carry out combat identification, ISR, and targeting. In order to better provide intelligence support to acquisition and reduce intelligence gaps in support of major weapons systems, DoD will standardize processes for identifying and understanding consequences of IMD gaps, balancing risk and cost, understanding tradeoffs, and making informed investment decisions.

In order to prevent strategic surprise and serve as the nation's first line of defense in tomorrow's national security environment, DoD must continue to adapt and transform, by protecting and enhancing key capabilities supporting Global Coverage, Anti Access/Area Denial, and Counterterrorism. These capabilities include a persistent, integrated, and resilient overhead architecture; assured persistent Intelligence, Surveillance, and Reconnaissance (ISR); and extended range Reaper with advanced sensors. Ensuring that these capabilities meet key performance parameters and are delivered on schedule and on budget will improve the Defense Intelligence Enterprise's ability to enable U.S. strategic and operational advantage.

Robotic and autonomous systems are an increasingly important element of 21st century military and counter-terrorism operations. This importance includes unmanned systems in the land, air, space, and maritime domains; antimunitions systems, defensive weapons systems, cyber-attack and cyber defense systems. DoD will reshape the future force by deeper integration of robotic and autonomous systems across all Joint Capability Areas. Unmanned air, space, land, and sea vehicles and other robotic systems capabilities provide flexible options for Joint Warfighters and exploit the inherent advantages of these technologies, including persistence, size, speed, maneuverability, and reduced risk to human life. The DoD, in concert with industry, must pursue investments and business practices that drive down life-cycle costs for robotic and autonomous systems and further develop technologies related to their application across the force.

The rapid evolution of emerging commercial technologies and integration with military systems and novel concepts of operation is increasingly the source of adversarial battlefield advantage.

DoD will pivot efforts towards fostering a robust and enduring relationship with the networks of innovation in the commercial technology sector, a foundational component to the nation's warfighting prowess, ensuring continued progression towards achieving technical superiority by the United States.

Performance Indicators:

DoD STRATEGIC GOAL #4: Achieve Dominant Capabilities through Innovation and Technical Excellence			
Performance Goals	**Performance Measure Indicators**	**Prior Year Results**	**FY15 Results**
Strategic Objective (SO) 4.4: Expand core capabilities in support of military interest			
PG 4.4.1: By the end of FY16, the DoD will achieve a deeper integration of the Joint Concept for Robotic and Autonomous Systems (JCRAS) in the future Joint Force. (JS (J8))	% JCRAS implemented	FY10-14 Actual: N/A New measure - ASP FY2015-2018	FY15 Target: N/A FY15 Result: 0%
	% JCRAS	FY10-14 Actual: N/A New measure - ASP FY2015-2018	FY15 Target: 50 FY15 Result: 60%

Cross Agency Priority (CAP) - STEM Education: Improve science, technology, engineering, and mathematics (STEM) education by implementing the Federal STEM Education 5-Year Strategic Plan, announced in May 2013.

Department of Defense engages with the CAP Goal for STEM Education. This CAP Goal's progress can be located at www.performance.gov.

The DoD STEM Education and Outreach programs and activities continue to provide services in the Pre-Kindergarten through 12th, Undergraduate and Graduate Continuum. As resources allow, the programs are expanded and implemented both nationally and internationally for DODEA schools. DoD has realized a ~7% increase in participation in programs across the education continuum.
This increase is due to a concerted effort by the Department to increase coordination (e.g., awareness, monitoring, reporting) to ensure complete data; improve communication with partners and ensure consistency of data gathering and reporting; increase stability and control STEM community support; and expand programs. The DoD has produced a FY16-20 STEM Strategic Plan, fully aligned to the Federal STEM Education 5-Year Strategic Plan.
DoD STEM participates in the Federal Co-STEM Interagency Working Groups implementing the Federal Plan.

CAP - Lab-to-Market: Increase the economic impact of federally-funded research and development by accelerating and improving the transfer of new technologies from the laboratory to the commercial marketplace.

Department of Defense engages with the CAP Goal for Lab-to-Market initiatives. This CAP Goal's progress can be located at www.performance.gov.

Department of Defense's Data Completeness and Reliability Statement–Fiscal Year 2015 Annual Performance Report
Each Goal Owner has attested the performance results and narrative information included in this report is complete, accurate, and reliable; and that data validation and verification procedures are documented and available upon request.

Measuring our Progress

FY 2015 APR Progress Update:

The Joint Staff will begin FY 2017 with an Implementation Plan for the newly developed Joint Concept for Robotic and Autonomous Systems. The plan is designed to provide a phased approach for the holistic integration of robotic and autonomous systems (RAS) into the DoD over the next 15-20 years. The strategy of the transition plan is to allow contemporary and cutting-edge technology to quickly inform Concepts of Operations (CONOPS) and integrate seamlessly into the joint force and evolve along with the current state of technology thereby increasing the human physical and cognitive performance.