# Department of Defense
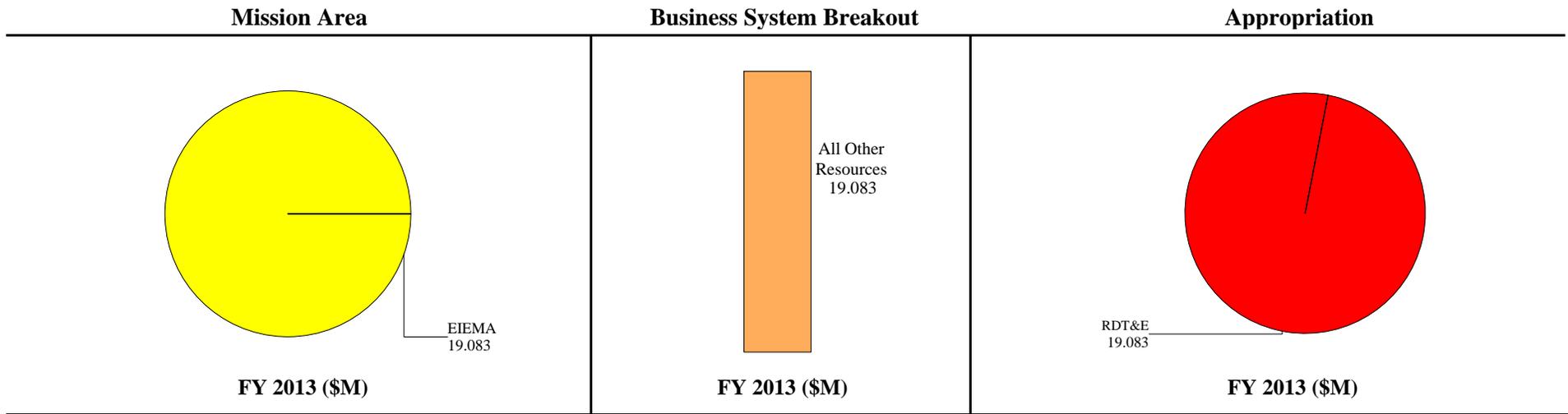## Fiscal Year (FY) 2013 IT President's Budget Request
## Defense Technical Information Center Overview

| Mission Area | Business System Breakout | Appropriation |
|---|---|---|

**Mission Area**

**Business System Breakout**

**Appropriation**

EIEMA
19.083

All Other
Resources
19.083

RDT&E
19.083

FY 2013 ($M)

FY 2013 ($M)

FY 2013 ($M)

| FY12 to FY13 Comparision ($M) | FY2012 | FY2013 | Delta | FY12/FY13PB Comparision ($M) | FY2012 | FY2013 | Delta |
|---|---|---|---|---|---|---|---|
| | | | | **PB FY2012:** | 20.563 | 20.063 | -0.500 |
| **PB FY2013:** | 19.583 | 19.083 | -0.500 | **PB FY2013:** | 19.583 | 19.083 | -0.500 |
| | | | | **Delta:** | -0.980 | -0.980 | |

**Explanation:**

The $500 Thousand delta is due to the Department's reduction of DTIC's Program from Fiscal Year (FY) 2012 to FY 2013. This in turn resulted in a reduction to DTIC's IT development and planning in FY 2013.

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## Executive Summary

The Defense Technical Information Center (DTIC) facilitates the transfer of scientific, technical and program information throughout the national defense community and other Federal agencies.  DTIC leverages the substantial investment of the Department of Defense (DoD) and Federal partners in research, development, test and evaluation (RDT&E) information.  Using advanced knowledge management techniques and centralized information discovery, dissemination and collaboration systems, DTIC reduces information discovery costs and increases access to information for defense, federal, and industry researchers, planners, and the warfighter while ensuring information security and user authentication. These efforts ultimately support DoD initiatives and increase the effectiveness of the DoD research, development and acquisition processes while implementing the U.S. National Action Plan on Open Government  by hosting scientific & technical information that is accessible to the widest audience possible including military, industry, educational institutions, other government agencies, and all citizens.

DTIC's networked systems contain metadata and full-text for over a million technical reports and ongoing research efforts, as well as tools to support information discovery and analysis.  To improve the integration of DTIC's resources and provide a consistent user experience, DTIC developed and launched the DTIC Online Access Controlled user interface.  The interface provides unified navigation and single sign-on access to DTIC's sensitive but unclassified (SBU) resources.  DTIC continues to implement the DoD CIO enterprise architecture, OMB guidelines, and Federal CIO mandates on meeting Federal Data Center Consolidation Initiative (FDCCI).  The DTIC IT budget projection reflects migration, reduction, consolidation, and improvements in cost and performance efforts.  Changes in FY 2012 have already contributed significantly towards meeting OMB guidelines and making DTIC one of the leanest IT operations in the DoD.

DTIC provides development and hosting for over one hundred Website applications that support DoD and other Federal partners and their component missions.  DTIC managed programs and IT hosted services support the Federal Voter Assistance Program (FVAP), IT hosting for the Department of Energy (DOE), Commerce (DOC), and major DoD core services such as the Core Vulnerability Assessment Management Program (CVAMP), which collects vital vulnerability information for the Joint Staff, and the DoD Comptroller's R-2 Budget Exhibit system, which generates standardized budget exhibits from XML coded data produced from the Component's existing internal systems without requiring a change to  their underlying structure.

SIPRNet
DTIC launched DoDTechipedia in October of 2008 and now has over 10,000 registered users.  DoDTechipedia is wiki software that uses Web 2.0 technologies to support S&T Researchers and acquisition decision-makers facilitating collaboration and knowledge-sharing across the DoD and other Federal agencies.  There are three DoDTechipedia wikis filling different needs.  The first is a limited-access wiki available to a wide user community of Federal Government and DoD employees and contractors.  The second is a more restricted wiki, DoDTechipedia Defense Communities, available to DoD employees and contractors only which allows more access control for specific communities of interest.  Finally, there is a SIPRNet version for the collaboration and sharing of classified topics and documents.

The DTIC managed Information Analysis Centers (IACs) respond directly to the Combatant Commands and Military Services, providing information and support in areas such as chemical and biological threat and defense, information assurance, sensors, and survivability and vulnerability.

In addition to supporting and enhancing the initiatives mentioned above, DTIC is continuously improving its system architecture to leverage Web2.0 technologies, new DoD-wide and Federal application initiatives and recent DoD and government-wide security initiatives. These new initiatives include continued implementation of the DoD Demilitarized Zone (DMZ) Architecture, Continuity of Operations (COOP) initiatives, and an increasing level of resource sharing among other Federal partners that help reduce

costs at other agencies.

1  Open Government Partnership, National Action Plan for the United States of America, signed 20 September 2011.

## Significant Changes

DTIC routinely investigates new and emerging technologies that have potential application for the Defense Community. DTIC continues to enhance its user authentication and user access management capabilities for website users. DTIC continues to integrate single sign-on with the DoD Common Access Card and the Homeland Security Presidential Directive 12 (HSPD-12)-mandated Personal Identity Verification (PIV) card to enforce effective strategies for data access control to the dozens of web portals and databases hosted within DTIC and for other federal partners.  DTIC monitors and complies with US Cyber Command taskings, including Host Based Security System (HBSS) implementation and Fragmentary Order (FRAGO) 11, which (among other activities) placed a moratorium on the use of Universal Serial Bus (USB) removable media, FRAGO 13, FISMA, and OMB memorandums. The implementation and continuance of Information Operations Condition (INFOCON) 3 has also made a significant demand on DTIC resources to maintain compliance.

Internet Protocol version 6 (IPv6) -- DTIC determined in June 2008 that internal and outward facing devices are IPv6 compatible and fully compliant with current guidance. Budget projections include planning towards complete migration to IPV6 in accordance with OMB and Department guidance.

Homeland Security Presidential Directive 12 (HSPD-12) -- DTIC has moved forward with requiring the DoD Common Access Card (CAC) for access to all of the DoD-only restricted websites supported at DTIC.  Strides in interoperability between DoD CAC and Federal  PIV (HSPD-12) programs have opened a path for increased information sharing between Federal agencies and DTIC hosted services.  Leveraging PIV and CAC interoperability has allowed DTIC to offer expanded  trusted identity services to other federal agencies which also helps reduce the burden of security management and costs for those agencies we support.

Host Based Security Systems (HBSS) -- DTIC is in compliance with all current requirements.

Information Operations Condition (INFOCON) 3 -- DTIC is in compliance with INFOCON 3. Until the INFOCON level is changed by US Cyber Command, DTIC will continue to implement, monitor and report system configuration information on a recurring basis.

Desktop Configuration - DTIC upgraded to Windows 7 and Microsoft Office 2010.

## Business Defense Systems

In concordance with OMB guidelines, DTIC  no longer hosts a Defense Business System.

## Information Assurance Activities

 DTIC has achieved full accreditation of all IT systems (Headquarters and San Diego sites) and complies with FISMA requirements. These accreditation statements were signed during the period of July 2011 through December 2011.They are valid for three years. Accreditation approval was based on system documentation,   (STIGs) and DoD mandates, and two separate highly favorable security reviews conducted by DISA and a contracted, external organization.  DTIC maintains an aggressive information assurance posture to

protect the large number of publicly facing web sites and varied number of supported DoD and Federal agencies.  Compliance verification testing is conducted often and in partnership with hosted agencies.

DTIC published an internal DTIC Information Assurance (IA) Program Instruction (DTICI 8500.1) on 19 July 2005. A draft update to this instruction was submitted for coordination on 22 June 2011. This publication provides a single, authoritative document for DTIC personnel that address internal IA policies and procedures. DTIC has had an in-house IA Certification training program in place for many years, which utilizes DISA produced computer-based training (CBT) modules. All of DTIC's Systems Administrators (SAs) have received this training.  SAs are required to complete the local DTIC IA training prior to obtaining administration privileges on any DTIC system. Since the IA Workforce Improvement Program under DoD Directive 8570.1 does not mandate Level II certification, DTIC is considering suspending its internal level II certification training.  DTIC has begun requiring Computing Environment certifications.

DTIC is actively implementing the IA Workforce Improvement Program (DoD 8570) requirements. Currently, 87% of DTIC's identified personnel have achieved certification. All DTIC personnel (regardless of the job title) are required to receive the most current DoD-approved IA Awareness Training annually.  We are 100% compliant with this requirement. Historically, DTIC has emphasized IA requirements and thoroughly evaluates security and IA concerns in all new system initiatives and system changes.

DTIC closely monitors, records and responds to the US Cyber Command Information Assurance Vulnerability alerts, Communications Tasking Orders and Warning Orders to ensure a high degree of information assurance compliance for our systems. DTIC has a formal agreement with the DISA Field Security Office (FSO) for Computer Network Defense (CND) support. DTIC also continues to monitor the Army Research Lab Interrogator tool to enhance DTIC's defense-in-depth posture. Additionally, SAs closely monitor applicable vendor sites for additional vulnerability and product enhancement information. 100% of DTIC's information technology (IT) system information has been entered into the DoD IT Registry as required.

## Major Accomplisments

   DTIC continued to develop, enhance and maintain information transfer products and services:
- Developed and implemented three components of the DoDTechipedia Suite of Services. These components include: a limited access wiki-based site designed to increase communication, collaboration and knowledge sharing among Federal S&T and acquisition community members; a classified wiki based site on the
SIPRNet that facilitates discussion of capability gaps and technology needs in a more secure environment; and DefenseSolutions.gov, a Website that reaches out to
non-traditional technology providers offering them a mechanism for directly submitting technology solutions in areas of interest to the DoD.
- Improving search capabilities for the DTIC Online Public user interface to support field specific searches for technical report metadata.
- Deploying DTIC Online – Access Controlled, a unified user interface, for DTIC's sensitive but unclassified science and technology collections with single sign-on, CAC enablement and additional search capabilities.
- Supporting 100+ DTIC and Component Web sites, including the Director, Defense Research & Engineering (DDR&E) public site, the Pacific Command (PACOM) site, Federal Voters Assistance Program (FVAP), Core Vulnerability Assessment Management Program (CVAMP), Comptroller R2, and DFAS.
- Enhancing existing products such as the DTIC Online Public User Interface with new features.
- Developing wiki applications to support the increasing need of the DoD Components for interactive collaboration tools and knowledge sharing.
- Expanding the R2 Budget Exhibits application to include all RDT&E budget exhibits.

DTIC has integrated DoD CAC access with Lightweight Directory Access Protocol (LDAP) and SiteMinder to provide single sign-on access control to its

sensitive but unclassified Websites, allowing more seamless access for its customers while affording better protection and administration of the data access.

DTIC has deployed a Service Oriented Architecture (SOA) that allows external systems to search, post and retrieve documents directly from DTIC systems.

DTIC worked with the Defense Information Systems Agency (DISA) to provide information on the Global Content Delivery System (GCDS), a world-wide, secure network for information dissemination.

DTIC has implemented the Defense Agencies Initiative (DAI), the Department's effort to extend its solution set for streamlining financial management capabilities, eliminating material weaknesses, and achieving financial statement auditability for the Agencies and Field Activities across the DoD.

DTIC responded rapidly to the ever changing information needs of our customers and served as a role model for providing fast access to information while maintaining appropriate information security.

DTIC implemented Aristotle to allow users to search people, topics and projects across the S&T Community.

DTIC has simplified user registration while strengthening user authentication, working with DMDC via WebService calls - implemented Aristotle to the DTIC Online Community.

## Major Planned Activities

DTIC's Administrator is responsible for overall management of the center and ensures that resources are allocated to meet organizational goals. DTIC's Configuration Control Board reviews major new initiatives for adherence to the organization's goals and monitors their execution. A major DTIC goal is to "make access to information easier while improving information security and integrity."  To achieve this goal:

DTIC will continue to develop, enhance and maintain information transfer products and services by:
- Maintaining and enhancing the DTIC Research and Development collections to ensure timely, secure and authoritative information for the national defense community.
- Including more technology intelligence information in its collections to meet researchers' needs for international science and technology information.
- Migrating DTIC's FAST search engine to use the Google Search Appliance across the DTIC NIPRNET and SIPRNet environments.
- Developing TechSpace as DTIC's gateway to DTIC Content, including Technical Reports, Aristotle, TEMS and DoDTechipedia.
- Deploying a SIPRNet version of the DTIC Online Access Controlled user interface to include DTIC collections classified up to the Secret level.
- Continued development of the consolidated DoD budget application combining and enhancing budget searching and analysis capabilities now dispersed in multiple tools.
- Providing greater integration of DTIC's access controlled resources by implementing unified searching of over 800,000 technical report citations and numerous full-text documents from the DTIC Technical Reports Collection using a single search capability in the DTIC Online Access Controlled user interface.
- Expanding the DoDTechipedia Suite of Services by providing and integrating additional web2.0 tools for Community Building, locating colleagues and experts, and establishing Communities of Interest based on S&T topics.
- Integrating searching of DoDTechipedia resources into the DTIC-Online Access Controlled unified search.

DTIC will continue to improve its Information Technology Architecture and Information Assurance initiatives to support and protect DTIC products and services by:
- Providing secure, reliable hosting services for more than 100 Websites supporting the DoD Components.
- Expanding existing application features and architecture to support newly emerging customer requirements and Continuity of Operations (COOP) capabilities.
- Expanding DTIC's Service Oriented Architecture.
- Continuing to use existing tools (COTS, GOTS and Shareware) to improve operational effectiveness and security.
- Maintaining the Host Based Security Systems (HBSS) requirements in DTIC to help maintain a secure environment.

- Responding rapidly to Information Assurance (IA) alerts and new IA requirements and initiatives.
- Expanding budget exhibits to include procurement exhibits.
- Fielding Google Search application to replace FAST Search for public and classified DTIC Online.
- SIPRNet
- DTIC will be moving its Internet Service Provider (ISP) connection to DITCO.
- Continue to provide support to the Federal Voters Assistance Program (FVAP).
- Implement and continue to move forward Search Semantic Capability.

## IT Enterprise Strategy & Roadmap (ITESR) Implementation Activities

### Consolidate Security Infrastructure (NS1)

DTIC has no immediate or ongoing implementation activities in that area.

### Implement Cross-Domain Solution as an Enterprise Service (NS3)

DTIC has no immediate or ongoing implementation activities in that area.

### Joint Information Environment (JIE)/Joint Enterprise Network (JEN) (NS8)

DTIC has no immediate or ongoing implementation activities in that area.

### Data Center and Server Consolidation (CS1)

DTIC implements the Federal Data Center Consolidation Initiative (FDCCI) beginning in FY 2010 and continuing through FY 2015. DTIC's enterprise architecture is in a good position to migrate to be a provider of some cloud services to current and prospective DoD and federal partners.

### Enterprise Messaging and Collaboration (including email) (ADS1)

DTIC has no immediate or ongoing implementation activities in that area.

### Identity and Access Management (idAM) Services (ADS2)

DTIC continues to integrate and migrate existing databases and web services to leverage the HSPD-12 identity services.

### Consolidate Software Purchasing (BP1)

DTIC has no immediate or ongoing implementation activities in that area.

**Consolidate Hardware Purchasing (BP2)**

DTIC has no immediate or ongoing implementation activities in that area.

## Information Technology Budget Exhibit Resource Summary by Investment (IT-1)

|  | ----------- Dollars in Thousands ----------- | | |
| --- | --- | --- | --- |
|  | *FY2011* | *FY2012* | *FY2013* |
| **RESOURCE SUMMARY:** | 20,880 | 19,583 | 19,083 |

**5024 - DEFENSE TECHNICAL INFORMATION CENTER (DTIC)**                                                            Non-Major

GIG Category:    COMMUNICATIONS AND COMPUTING INFRASTRUCTURE - NETCENTRIC SERVICE

**RDT&E**

| | | | ----------- Dollars in Thousands ----------- | | |
| --- | --- | --- | --- | --- | --- |
| *Appropriation* | *Budget Activity* | *Program Element* | *FY2011* | *FY2012* | *FY2013* |
| RDT&E | BA 06 RDT&E MANAGEMENT SUPPORT | 0605801KA  DEFENSE TECHNICAL INFORMATION CENTER (DTIC) | 20,880 | 19,583 | 19,083 |

|  | | | |
| --- | --- | --- | --- |
| **Investment Resource Summary:** | 20,880 | 19,583 | 19,083 |