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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2022 Defense Technical Information Center **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> / BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605801KA / <i>Defense Technical Information Center</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	319.747	60.396	57.716	61.453	-	61.453	-	-	-	-	-	-
001: <i>Defense Technical Information Center</i>	285.360	55.380	52.700	56.437	-	56.437	-	-	-	-	-	-
002: <i>Information Analysis Centers</i>	34.387	5.016	5.016	5.016	-	5.016	-	-	-	-	-	-

**A. Mission Description and Budget Item Justification**

The Defense Technical Information Center’s (DTIC) unique mission is to propel development of future generations of Warfighter capabilities through broad sharing of DoD’s research, innovations, and advances. The DoD’s investment in Science and Technology (S&T) is the basis of future warfighter capability. By capturing the results of today’s research and providing outlets for wide dissemination, DTIC increases the return on S&T investment. The funds requested in this program support DTIC efforts to aggressively transform distribution, enhance collection, perform initial analysis on content, and support management of research data sets. As the DoD RDT&E knowledge center, DTIC works across the Services and agencies to provide insight and awareness to all users:

- Visibility across Service and agency research activity for all users.
- Avoids the cost of redundant and potentially siloed Service systems.
- Comprehensive knowledge base enhances the promise of artificial intelligence (AI) and machine learning (ML).
- Drives research-focused, cross-component collaboration.

DTIC delivers a knowledge base of more than 4.6 Million information records to increase collaboration and cooperation within the DoD, with our industry partners, academia, inter-agency working groups, and citizen scientists. For 75 years, DTIC has been providing research results, lessons learned, where work is being performed and progress made. DTIC, a DoD Field Activity under the authority, direction and control of the Under Secretary of Defense for Research and Engineering (USD(R&E)), is the DoD’s executive agent and sole central source for DoD-funded scientific, technical, engineering, and industry-related information. DTIC develops and delivers information and services to share knowledge and enhance decision making.

This Program Element (PE) provides for DTIC mission operations, which are focused on three core efforts: Collection, Dissemination, and Information Analysis Centers (IACs):

- 1) Acquire and prepare results of DoD’s multi-billion annual investment as a foundation for future activity. Enable the community to build upon past work to avoid costly and time-delaying rework. Consolidate input systems and migrate users to electronic submission to improve quality of material and realign resources from manual processing to end user tools.
- 2) Enhance analysis tools to increase understanding of the S&T landscape and incorporate leading commercial analytic and search technologies to improve search results and provide users key information to provide a complete picture of activity and progress. By employing tools now accessible in the cloud, DTIC looks to move the burden and time consumption for initial analysis from the user by pre-processing and presenting information products that inform and answer questions using data drawn from multiple collections. Improve user self-service functions to refocus resources on information analysis and interrogation capabilities.

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3) Operate the DoD Information Analysis Centers (IACs), which solve DoD technology challenges by providing rapid, flexible and low-cost research services. The IACs provide subject-matter experts to perform research, analysis and training, and an R&D contracting vehicle supporting PEO and PM insertion of technical innovation into systems of record.

Other priority DTIC mission activities are described below:

- 1) Bring communities together supporting collaboration between researchers, warfighters, industry, academia, Federal agencies, and allies.
- 2) Ensure information is protected: easily available to trusted users, and blocked from unauthorized access.
- 3) Develop and manage DoD's Science Technology Information Policy (STIP).
- 4) Maintain compliance with existing public law, regulations, and guidelines.
- 5) Continue progress on Congressionally-mandated programs, as directed within the FY 2019 National Defense Authorization Act (NDAA):
  - Innovators Information Repository (IIR): increase awareness of Small Business Innovation Research (SBIR)/ Small Business Technology Transfer (STTR) and other small business innovative technology capability and improve transition to systems of record. Add resources to the IIR, provide PEO's and PM's increased visibility on innovation. Work with the SBIR/STTR Office to identify impediments to tech transfer and work to increase the flow of information available to the acquisition community.
  - Global Research Watch (GRW) Program: In partnership with the Strategic Intelligence & Analysis Cell (SIAC), DTIC provides infrastructure for SIAC's decision-quality analysis of open source information on international research programs and capabilities. Building on FY 2020 results, DTIC will tailor the hosting environment based on SIAC feedback and evaluation of accuracy and utility of analysis.
  - Datasets and Data Repositories: PubDefense provides links to DoD funded data sets produced in extramural research linked to published journal articles. DTIC is leading DDR&E(R&T) chartered cross-Service Research Data Working Group.

In support of these mission operations, DTIC leases space and critical shared services (e.g., human resources (HR); financial management and accounting; contracting; cloud hosting; common-use IT services and security; communications; and civilian payroll services) from expert and efficient DoD and commercial service-providers.

DTIC MISSION RESULTS

The Department invests over \$14 Billion annually in S&T needed to protect and defend our nation. DTIC preserves the fruits of these key investments for reuse across DoD. DTIC has refocused and accelerated its efforts on state of the art search, analysis, and information product delivery, DTIC collects data and provides answers to researchers seeking state-of-the-art data relevant to their projects. DTIC accelerates innovation and prevents duplication of experiments, tests, and prototyping activities by allowing researchers to discover and build on what has been done and avoid following dead-end paths. Using DTIC-created forums, researchers, Warfighters, and industry partners can also collaborate across the DoD research and engineering (R&E) enterprise. Finally, DTIC provides a department-level map of R&D activity. This map gives decision-makers insight into current and past research, highlighting where progress is being made and by whom.

DTIC's Information Analysis Centers (IACs) drive innovation and technological development by anticipating and responding to the information needs of the defense and broader community. The IAC Program Management Office (IAC PMO) provides core funding, management and oversight of three IACs, which are chartered by DoD to collect, research, analyze, and disseminate S&T information in specialized fields to DoD researchers and acquisition professionals. In addition, the IAC PMO manages several multiple award contracts to make possible new research that builds on prior investments and incorporates the innovations of government, industry,

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and academia. For the last several years, competition inherent in the IAC model has produced savings of 10-16% under projected costs, while still delivering vetted technical expertise to address DoD's complex challenges. Providing DoD labs and program managers' access to thousands of industry subject matter experts, the IACs performed over \$2 Billion of customer-funded research and analysis in FY 2020. The results of the work are a rich source of new material in DTIC's technical repositories and are available to users across the Department. The IAC approach was identified as a "best practice" by the Director of Defense Pricing and Contracting and the then-Acting Assistant Secretary of Defense for Research and Engineering in a July 2018 memo wherein they recommended use of the IAC contracts across DoD as "vehicles of first choice."

**SUMMARY**

- DTIC actively supports the Secretary's priorities – defending the Nation, taking care of our people, and succeeding through teamwork.
- DTIC's plans reflect a strong commitment to address congressional and DoD priorities.
- Building on progress, DTIC's focus remains on growing the knowledge base, facilitating sharing, maintaining open repositories, and developing data analytics to advance discovery and understanding.
- To provide decision makers and Warfighters insight into the S&T research terrain, DTIC is adopting transformational technologies to enhance collection, distribution, analysis and research data sets.

<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2020</u></b>	<b><u>FY 2021</u></b>	<b><u>FY 2022 Base</u></b>	<b><u>FY 2022 OCO</u></b>	<b><u>FY 2022 Total</u></b>
Previous President's Budget	57.716	59.369	61.308	-	61.308
Current President's Budget	60.396	57.716	61.453	-	61.453
Total Adjustments	2.680	-1.653	0.145	-	0.145
• Congressional General Reductions	0.000	-			
• Congressional Directed Reductions	0.000	-1.653			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Changes	2.680	-	0.145	-	0.145

**Change Summary Explanation**

Program Change: The FY 2022 Base program increase (\$0.145 Million), as compared to the Previous President's Budget FY 2022 Base, reflects a net change resulting from the following adjustments:

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1) Miscellaneous adjustments related to economic assumptions, inflation, and civilian payroll pricing.

FY 2022 Service Requirements Review Board (SRRB) Reduction: The FY 2022 Base program includes a \$0.740 Million reduction in accordance with the Department's recent service contract downsizing effort.

The FY 2022 Base program also includes a \$0.028 Million reduction attributable to Fourth Estate Information Technology (4E IT) Reform savings.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Defense Technical Information Center										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 0400 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605801KA / <i>Defense Technical Inform</i> <i>ation Center</i>				<b>Project (Number/Name)</b> 001 / <i>Defense Technical Information Center</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
001: <i>Defense Technical Information Center</i>	285.360	55.380	52.700	56.437	-	56.437	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

DTIC is responsible for developing, coordinating and enabling a strong scientific and technical information (STINFO) program for the Office of the Under Secretary of Defense for Research and Engineering (OUSDR&E) and the DOD scientific and technical (S&T) enterprise. In this role, DTIC sets policy for scientific and technical information (STI) exchanges for the research and engineering (R&E) community. DTIC’s challenge is to maximize the availability and use of technical information and products resulting from Defense-funded technical activities while safeguarding national security, export control, and intellectual property rights. The Department conducts science and technology research via the following means: 60+ labs, Federally Funded Research and Development Centers (FFRDCs), DTIC’s Information Analysis Centers (IACs), and other contracts and grants. DTIC’s search and collaboration applications foster innovation, competition and identification of solutions in an access-controlled environment.

Within this budget project, DTIC’s organizational efforts are focused on the continued rework and modernization of Collection and Dissemination core mission areas, along with the following critical activities:

- 1) Search: Apply artificial intelligence/machine learning technologies to produce information products, and develop tailored search mechanisms that enable users to quickly discover useful information and ensure DTIC presents the most relevant information. Semantic (machine learning) mapping of information facilitates comprehensive and precise data retrieval, built on DTIC’s custom thesaurus (for use by DOD and allied partners).
- 2) Collaboration: Continue efforts to facilitate communication and coordination between S&T and the warfighting community. Consolidate collaboration tools focusing on DoDTechipedia wiki, open to all DoD users.
- 3) Access Identity and metrics: Develop custom information resources based on analysis of user activity, evaluate products and services to ensure performance goals are met. Model activity to identify anomalies that might indicate cyber issues.
- 4) Data Fusion/Analysis: DTIC applications permit the gathering of information from multiple data sources that fuse the disparate datasets into a single view of the life cycle of research, and present an overarching picture of research investment enabling decision-makers to employ resources to highest priority efforts and coordinate efforts across Services.
- 5) Cyber Security: DTIC continues to leverage state-of-the art technologies, processes and practices designed to protect DTIC networks, computers, programs and data from attack, damage or unauthorized access.
- 6) Controlled Unclassified Information (CUI): An ongoing effort to standardize the way the Executive Branch handles unclassified information under a new document-marking framework.
- 7) Public Access/Open Science (for articles and digital data): DTIC will work to complete issuance of policies in the Defense Federal Acquisition Regulation Supplement (DFARS), the Department of Defense Grant and Agreement Regulations (DoDGARs) and Instructions to enumerate open science initiatives and direction.

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8) FY 2019 NDAA Section 202 and Section 905 new mission activities: DTIC continues to execute dataset management, the Global Research Watch (GRW) program, and the Innovators Information Repository (IIR). With respect to datasets and Data Repositories created during research, DTIC is building out a searchable dataset directory to direct users to organizations holding relevant datasets. DTIC is linking datasets to completed and in-progress research.

**SUPPORTING USER COMMUNITIES**

DTIC supports user communities on the network where they work, i.e., NIPRNet, SIPRNet, and the public internet, and uniquely provides access controls within unclassified and classified material to protect intellectual property in our search, distribution, and collaboration tools.

- DoD's RDT&E Enterprise: As a Field Activity to the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)), DTIC's priority is the RDT&E enterprise, hosting information assets and tools on the NIPRNet, the primary network for the community.

- Warfighter: Improving coordination between the acquisition enterprise and warfighter communities, DTIC hosts information assets and tools on the SIPRNet. DTIC is actively working to expand the availability of science and technology (S&T) information, to include Independent Research and Development (IR&D), on the SIPRNet. DTIC continues its efforts to establish parity of information and capabilities on applications hosted on both NIPRNet and SIPRNet platforms.

- Industry, Academia, and Citizen Science via Public Internet: Engaging industry outside the NIPRNet firewall to support acquisition improvement initiatives and encourage the introduction of innovation, DTIC hosts unclassified public information and tools accessible to all users on the Internet. DTIC provides public access to DoD-funded journal articles and research data, and increases outreach to industry through DTIC's Defense Innovation Marketplace.

**SUMMARY**

DTIC is focused on the future, building new capabilities to mine the rich material produced from DoDs research community, and provide actionable products requiring minimal user time and expertise. DTIC works to ensure the results of DoD's investments in S&T research are available to inform the next generation of scientists, researchers, and engineers, empowering them to build on past accomplishments/what works and to avoid proven dead ends. In doing so the pace of innovation accelerates, the quality of science improves, and capability delivery to the warfighter is more rapid. DTIC provides the decision makers and technology consumers in the acquisition and warfighting communities' insight on S&T activity, what is being worked on, how many projects, where work is being performed, maturity of projects, and who to contact. DTIC is uniquely positioned to support and to ensure the value of DoD's R&D portfolio is fully realized.

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> Defense Technical Information Center	55.380	52.700	56.437
<b>FY 2021 Plans:</b> - Modernize DTIC capabilities by implementing commercial off the shelf (CoTS) machine learning (ML), analytics, and artificial intelligence (AI) tools to advance DTIC's capability to provide customers with knowledge analysis, advanced search, analysis and analytics.			

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**B. Accomplishments/Planned Programs (\$ in Millions)**

	FY 2020	FY 2021	FY 2022
<ul style="list-style-type: none"> <li>-- Partner with the USD (R&amp;E) technical Joint Reserve Directorate (JRD) to develop a phased based approach for DTIC modernization.</li> <li>-- Modernize search based tools to help users understand DTIC data, and knowledge analysis on data.</li> <li>-- Implement commercial cloud based technologies that support ML and AI giving DTIC the technical infrastructure necessary to provide customers the ability to conduct analysis on DTIC data.</li> <li>-- Pilot ML, AI tool(s) that are approved for the Government cloud implementation.</li> <li>- Increase user self service capability in account management, and customization.</li> <li>- Consolidate DTIC Collection applications to improve and simplify customer submission experience providing improved data quality, ability to link information from active research to completed research and provide results that allow the customer to locate relevant information.</li> <li>-- Consolidation Goal for the year is completing the integration of the Research Projects collection.</li> <li>- Provide customers the understanding of the landscape of funded and developing technologies throughout the R&amp;E community through new capabilities delivered to the DTIC Horizons application. Horizons provides the ability for customers to view and analyze DTIC data through graphical and visual displays and linking data through search results.</li> <li>-- Enhancements to the Horizons data analysis tool will include integrating contracts and awards data from Defense Pricing and Contract's (DPC) Procurement Business Intelligence Service (PBIS) database; make project-level data from budget justifications available for viewing; deploy additional links between budget justifications, grants, contracts, and research project summaries that will be available for exploration in the application.</li> <li>-- Compilation and linking of these data sources enables decision makers and analysts to follow funding allocations, see who is doing work, how much work is being done, and where work is being performed. Horizons visualizations, graphical displays and usability features increase customer's ability to track the life cycle of funding and outcomes of funded work while assisting customers to identify impacts of S&amp;T investments.</li> <li>- Complete plan and initiate work to merge DTIC search capabilities to simplify customer's access to DTIC data, search, and analysis.</li> <li>- Implement a mobile-friendly customer login screen accessing DTIC products allowing customers to work within DTIC's products interchangeably between desktop and mobile.</li> <li>-- Initiate transition of DTIC products to support all mobile devices by integrating a new code base that has a responsive design ensuring similar user experiences across all mobile and desktop device types.</li> <li>-- Establish DTIC mobile presence within DISA's app store laying the foundation for the FY 2022 mobile modernization efforts that will focus on implementing a modern progressive web application that give the customer ease of access to all DTIC products regardless of device type.</li> <li>- Continue enhancement and maturing of DTIC's new Access and Identity Management (AIM) commercial off the shelf system (CoTS) implemented in FY20 and FY21. AIM ensures optimized delivery of DTIC information with all data protections in place.</li> <li>-- Simplify user access to DTIC tools, enhance cyber security, and support new ways for users to access DTIC tools securely.</li> </ul>			

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**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<ul style="list-style-type: none"> <li>-- Improve support to growing and wider range of Public Key Infrastructure (PKI) credentials to ensure DTIC can support interagency usage and international partners.</li> <li>-- Implement features and capabilities providing user activity dashboards and advanced analytics on user behavior in products and services. These features and analytics will allow DTIC to fully understand user behavior and usage within DTIC products and services and adjust where necessary to meet customer needs.</li> <li>-- Consolidate registration applications for the IAC Basic Centers of Operations (BCOs) to DTIC's commercial off the shelf (CoTS) AIM system; consolidates platforms DTIC has to technically maintain, brings .gov and .mil IAC customers into directly into the wider selection of DTIC products and services available giving those users more resources to conduct their research and expand the overall DTIC customer base.</li> <li>-- Move from a service oriented model of customer support to a self-service customer capability improving customer's ability to answer questions and solve any issues through FAQs and other resources enabling user to get better results and quicker access to DTIC resources.</li> <li>- Collect and preserve material to ensure the work performed in the DoD labs and across the department isn't lost and remains available to the community to further research. The goal is to increase collection of final reports by 42K, increasing amount of final reports into the DTIC Collection for use by DOD and partners.</li> <li>-- Automate standard data fields, saving user time with collection submissions, by incorporating a submission of unique identifier for authors through the use of the Open Researcher and Contributor Identifier (ORCID) and making it available during search. This will result in a better search experience for DTIC customers.</li> <li>-- Incorporate unique identifiers for documents (DOI) with public collection submissions to create a persistent link for consistency and increased accuracy in the search experience.</li> <li>- Complete system requirements for changes due to the new categories in the Controlled Unclassified Information (CUI) federal marking framework.</li> <li>- Support DoD's public access effort; conduct outreach and educate intramural and extramural researchers on the requirement to submit journal articles, data management plans, and datasets to DTIC.</li> <li>-- Expand the access to open repositories by integrating workflows between DTIC's single submission system and PubDefense for public access journal articles and associated public datasets.</li> <li>- Continue R&amp;E engagement and outreach by meeting with DoD labs, conducting site visits to R&amp;E organizations, attending virtual conferences and attending conferences to further extend the use of DTIC resources and enabling the R&amp;E community with the many products and services DTIC offers.</li> <li>- Improve IT Continuity of Operations (COOP) capabilities to provide critical information to customers during a crisis.</li> <li>-- Implement dynamic failover capabilities for critical applications that demand high availability and performance.</li> <li>-- Develop operations framework to minimize workload for ad hoc implementation of essential services in COOP environments.</li> <li>- Migrate 90 percent of traditional data center computing/storage capabilities with cloud services for more agile operations; complete IT modernization goal to migrate all mission applications within three years.</li> </ul>			

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**B. Accomplishments/Planned Programs (\$ in Millions)**

	FY 2020	FY 2021	FY 2022
<ul style="list-style-type: none"> <li>- The National Defense Authorization Act (NDAA-19) programs include: Innovators Information Repository (IIR), Global Research Watch (GRW) Program, and Datasets and Data Repositories.</li> <li>- Expand the Innovators Information Repository (IIR).                             <ul style="list-style-type: none"> <li>-- Explore, in partnership with Services and CCMDs, the development of a capability for companies, academia, and startups to submit portfolios of innovation activities and company information.</li> <li>-- Link technical reports and research in progress reports to SBIR contract awards to track progression of technologies and innovations.</li> <li>-- Automate the process to update and maintain all SBIR and STTR contract award information in IIR.</li> <li>-- Complete the draft revision of DoD 3200.14 requiring the use of the IIR to determine whether technology exists or is in development before Department organizations initiate a Request for Information (RFI) or Request for Proposal (RFP).</li> </ul> </li> <li>- Expand the Global Research Watch (GRW) Program.                             <ul style="list-style-type: none"> <li>-- Complete the hosting of Strategic Intelligence Analysis Cell (SIAC) GRW analytics tools at DTIC.</li> <li>-- Expand the data available for GRW analytics tools to the international agreements, technology scouting reports, and DoD budget data.</li> <li>-- Explore language identification and translation capabilities of foreign research literature to facilitate the comparative analysis of foreign nations in relations to the research capabilities of the United States.</li> <li>-- Work with the SIAC to expand the GRW tools on the secret network.</li> </ul> </li> <li>- Collect and preserve material to ensure the work performed in the DoD labs and across the department isn't lost and remains available to the community to further research.                             <ul style="list-style-type: none"> <li>-- Collaborate with DoD Labs on DoD Dataset Directory, to promote completeness of records within the directory and encourage its use to provide consolidated location for discovering dataset associated with DoD-funded research.</li> </ul> </li> <li>- Continue to publish the Journal of DoD Research and Engineering (JDRE) two times each year, and seek opportunities for special editions.                             <ul style="list-style-type: none"> <li>-- Manage peer reviewers from across entire R&amp;E community; manage vetting of restricted and classified articles submitted from across the entire R&amp;E community.</li> </ul> </li> <li>- Implement customer satisfaction benchmarks based on results and feedback from the Interactive Customer Evaluation (ICE).</li> </ul> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue efforts to modernize and enhance search and discovery of information in DTIC collections.                             <ul style="list-style-type: none"> <li>-- Incorporate modern commercial cloud managed services to consolidate multiple search tools into the single R&amp;E Gateway search (i.e., Amazon Web Services artificial intelligence/search technologies).</li> <li>-- Simplify information discovery using Natural Language Processing (NLP), Machine Learning (ML) and artificial intelligence (AI) techniques to process and analyze information.</li> <li>-- Complete capabilities for customers to conduct self-service analytics to discover linkages and trends across DTIC data.</li> </ul> </li> </ul>			

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**B. Accomplishments/Planned Programs (\$ in Millions)**

	FY 2020	FY 2021	FY 2022
<ul style="list-style-type: none"> <li>- Explore delivery of a single collaboration and knowledge management platform for DTIC customers.</li> <li>-- Pilot a consolidate collaboration tools to a single application open to all DTIC customers while still protecting data at varying customer credentialed levels.</li> <li>-- Facilitate communication and coordination between S&amp;T and the warfighting community through consolidated platform reducing barriers to collaboration and data sharing.</li> <li>- Enhance DTIC's commercial off the shelf Access and Identity Management (AIM) and implement on SIPR products and services once products and services are migrated to the SIPR commercial cloud.</li> <li>-- Strengthen methods for user identity confirmation and authentication (i.e., CAC, PIV, etc.) to protect against data exfiltration and continue enhancing customer self-service registration capabilities.</li> <li>-- Implement user activity dashboards for products and services on SIPR to fully understand user behavior and usage within DTIC products and services.</li> <li>-- Enable authentication for mobile applications.</li> <li>- Continue transition of DTIC applications to support mobile devices while DTIC undergoes a product consolidation and modernization evolution.</li> <li>- Support the DTIC modernization by incorporation progressive web application features (mobile coding) into DTIC's application consolidation efforts. Using a mobile progressive web application ensures less maintenance with only one application code base and supports secure DTIC on mobile devices using the same authentication policies that the desktop application versions require.</li> <li>- Progressive mobile web applications implementation during this phase of DTIC's modernization will ensure users can begin their work on DTIC applications on a desktop device and resume on their mobile device.</li> <li>- Continue streamline of common submission system to support self-service submission of research progress and final reports from the DoD and partners.</li> <li>-- Expand usage of Open Researcher and Contributor Identifier (ORCID) unique identifier to retrieve author information to auto-populate, saving user time with collection submissions. This will result in improved data quality and a better search experience for DTIC customers.</li> <li>-- Explore self-service maintenance feature for trusted DoD users to update content submitted to DTIC common submission system. This will reduce latency in updates to the community.</li> <li>- Collect and preserve material to ensure the work performed in the DoD labs and across the department isn't lost and remains available to the community to further research. The goal is to increase collection of final reports by 40K, increasing amount of final reports into the DTIC Collection for use by DOD and partners.</li> <li>- Automate standard data fields, saving user time with collection submissions, by incorporating a submission of unique identifier for authors through the use of the Open Researcher and Contributor Identifier (ORCID) and making it available during search. This will result in a better search experience for DTIC customers.</li> <li>- Initiate system changes due to the new categories in the Controlled Unclassified Information (CUI) federal marking framework.</li> </ul>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Defense Technical Information Center		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801KA / <i>Defense Technical Information Center</i>	<b>Project (Number/Name)</b> 001 / <i>Defense Technical Information Center</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<ul style="list-style-type: none"> <li>- Continue R&amp;E engagement and outreach by meeting with DoD labs, conducting site visits to R&amp;E organizations, attending virtual conferences and attending conferences to further extend the use of DTIC resources and enabling the R&amp;E community with the many products and services DTIC offers.</li> <li>- Bolster IT Continuity of Operations (COOP).</li> <li>-- Build in high availability and performance within Cloud environment.</li> <li>- Standardize and optimize Cloud based infrastructure environments to enhance security posture, improve metrics, meet DoD data center reduction goals, provide continuous monitoring, capabilities, quicker recovery from failure, and take full potential of cost savings.</li> <li>-- Focus on what Amazon is doing with Artificial Intelligence with Search Engines.</li> <li>- The National Defense Authorization Act (NDAA-19) Programs include: Innovators Information Repository (IIR), Global Research Watch (GRW) Program, and Datasets and Data Repositories.</li> <li>- Continue to maintain and expand the Innovators Information Repository (IIR).</li> <li>-- Integrate IIR capabilities into the R&amp;E Gateway Search.</li> <li>-- Explore, in partnership with Services and CCMDs, the development of a capability for companies, academia, and startups to submit portfolios of innovation activities and company information.</li> <li>-- Complete the revision of DoD 3200.14 requiring the use of the IIR to determine whether technology exists or is in development before Department organizations initiate a Request for Information (RFI) or Request for Proposal (RFP).</li> <li>-- Continue outreach with Program Executive Offices (PEOs) to expand the use of IIR.</li> <li>- Continue to expand the Global Research Watch (GRW) Program.</li> <li>-- Incorporate additional datasets to identify foreign innovations and technologies.</li> <li>-- Explore pilot language identification and translation capabilities of foreign research literature to facilitate the comparative analysis of foreign nations in relations to the research capabilities of the United States.</li> <li>-- Explore expansion the GRW tools on the secret network.</li> <li>-- Explore partnering with the Services, DoD Agencies, and Intelligence Communities to identify and incorporate Classified foreign research and technologies.</li> <li>- Collect and preserve material to ensure the work performed in the DoD labs and across the department isn't lost and remains available to the community to further research.</li> <li>-- Collaborate with DoD Labs on DoD Data set Directory, to promote completeness of records within the directory and encourage its use to provide consolidated location for discovering dataset associated with DoD-funded research.</li> <li>- Continue to publish the Journal of DoD Research and Engineering (JDRE) two times each year, and seek opportunities for special editions.</li> </ul>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Defense Technical Information Center		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801KA / <i>Defense Technical Inform ation Center</i>	<b>Project (Number/Name)</b> 001 / <i>Defense Technical Information Center</i>

**B. Accomplishments/Planned Programs (\$ in Millions)**

-- Manage peer reviewers from across entire R&E community; manage vetting of restricted and classified articles submitted from across the entire R&E community.

***FY 2021 to FY 2022 Increase/Decrease Statement:***

In the FY 2018 President's Budget, the Department recapitalized DTIC across the FYDP. The \$3.737 Million increment in the current FY 2022 PB builds upon FY 2018-21 activities and progress towards meeting urgent operational mission and modernization requirements. Funding requested in this program supports DTIC efforts to aggressively transform distribution, enhance collection, perform initial analysis on content, and support management of research data sets:

- Improvements to DoD search tools.
- Identity management and information protection.
- Re-establishment of an IT COOP.
- Parity of services on SIPRNet.
- Migration to cloud services.
- Support of Public Access/citizen science.
- Address technology shortfalls in user interface and the continuing migration of users to mobile devices.
- The Department's implementation of Controlled Unclassified Information (CUI) marking.
- Implement, expand, and mature programs directed by the National Defense Authorization Act (NDAA-19), to include: Innovators Information Repository (IIR), Global Research Watch (GRW) Program, and Data sets and Data Repositories.

DTIC's investment in new tools and capabilities will address customer needs and underwrite the innovation and modernization necessary to support DoD's enduring mission to provide combat-ready military forces to deter war and protect the security of our nation.

FY 2020	FY 2021	FY 2022
<b>Accomplishments/Planned Programs Subtotals</b>		
55.380	52.700	56.437

**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Defense Technical Information Center										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 0400 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605801KA / <i>Defense Technical Information Center</i>				<b>Project (Number/Name)</b> 002 / <i>Information Analysis Centers</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
002: <i>Information Analysis Centers</i>	34.387	5.016	5.016	5.016	-	5.016	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

**A. Mission Description and Budget Item Justification**

DoD Information Analysis Centers (IACs), established under DoD Instruction 3200.14, serve as a vital resource in providing timely, relevant information directly to users when and where it is needed. IACs serve as a bridge between the warfighter and the Acquisition/Research community, providing essential technical analysis and data support to a diverse customer base, to include the Combatant Commands (CCMDs), the Office of the Secretary of Defense, Defense Agencies, and the Military Services. IACs actively partner and collaborate with Defense Research and Engineering (R&E) focus groups and communities of interest in areas of specialized fields or specific technologies. The IACs create and maintain comprehensive knowledge analysis centers that include historical, technical, scientific, and other data and information collected worldwide. They are staffed with scientists, engineers and information specialists to provide research and analysis to customers with diverse, complex and challenging requirements. IAC operations, in concert with National Defense Strategy objectives, directly support the warfighter, and play an ongoing and critical role in solving key CCMD operational issues such as cyber security, unmanned aerial vehicle visual/audible signature reduction, and improvements to the ballistic resistance of body armor.

The IAC Program Management Office at DTIC performs contract acquisition, program management, and operational support for IAC contract operations and the technical information that is generated as a result of research and studies. In a time of shrinking budgets and increasing responsibility, IACs are a valuable resource for accessing scientific and technical information culled from efforts to solve new and historic challenges. Direct IAC customer support activities, such as Task Order processing, Basic Center of Operations (BCO) support, Defense Finance and Accounting Service (DFAS) activities, contracting/acquisition related activities, etc., are funded in part through partnerships with the Defense R&E community and the annual collection of customer reimbursements for their share of direct costs, in accordance with the IAC Reimbursable Review Board (IRRB) recommendations. This represents the maximum cost-sharing with IAC customers allowable, per guidance from the OSD Office of General Counsel. Annual IAC efforts and accomplishments are dependent on the level of participation and collaboration by the R&E community at large.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> Information Analysis Centers	5.016	5.016	5.016
<b>FY 2021 Plans:</b>			
- Of the 42,000+ documents collected by DTIC, the IACs will collect provide a minimum of 12,000 new technical reports to DTIC for DoD use, increasing collection efforts over the previous year.			
- In order to support the exchange of information among members of the operational and technical communities, answer approximately 3,600 technical inquiries with timely and in-depth science and technology (S&T) analysis; create and provide STI results via three IAC websites; capture scientific and technical information (STI) products from new/on-going analysis tasks.			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Defense Technical Information Center		<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801KA / <i>Defense Technical Information Center</i>	<b>Project (Number/Name)</b> 002 / <i>Information Analysis Centers</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<ul style="list-style-type: none"> <li>- Provide research services to the DoD by awarding, managing, and supporting at least 50 new Technical Area Tasks (TATs) ordered by the DoD and non-DoD customers; provide program strategy and ensure alignment with Department goals/direction.</li> <li>- Ensure the IAC Multiple Award Contract (MAC) is meeting the needs of DoD researchers by assessing the second year of contract usage.</li> <li>- Support DoD research objectives by providing research services to new DoD customers, ensuring that new users exceed departing customers, and support research in new technologies as needed to align to USD(R&amp;E) priorities.</li> <li>- Expand support of DoD research &amp; development by increasing the number of registered users of the IAC program by at least 1,500.</li> <li>- Monitor and reduce the time-to-award for new research task orders by eliminating or reducing unnecessary reviews or processes.</li> </ul> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>- In order to streamline IAC research services, complete transition of Basic Center of Operations (BCO) contracts from three to one contract performer, while still retaining three external facing operations: Cyber Security, Defense Systems, and Homeland Defense.</li> <li>- Of the 42,000+ documents collected by DTIC, the IACs will collect provide a minimum of 10,000 new technical reports to DTIC for DoD use, increasing collection efforts over the previous year.</li> <li>- In order to support the exchange of information among members of the operational and technical communities, answer approximately 3,000 technical inquiries with timely and in-depth science and technology (S&amp;T) analysis; create and provide STI results via three IAC websites; capture scientific and technical information (STI) products from new/on-going analysis tasks.</li> <li>- Provide research services to the DoD by awarding, managing, and supporting at least 65 new Technical Area Tasks (TATs) ordered by the DoD and non-DoD customers; provide program strategy and ensure alignment with Department goals/direction.</li> <li>- Ensure the IAC Multiple Award Contract (MAC) is meeting the needs of DoD researchers by assessing the third year of contract usage.</li> <li>- Support DoD research objectives by providing research services to new DoD customers, ensuring that new users exceed departing customers, and support research in new technologies as needed to align to USD(R&amp;E) priorities.</li> <li>- Expand support of DoD research &amp; development by increasing the number of registered users of the IAC program by at least 1,200.</li> <li>- Assist in the progress of DoD S&amp;T research by expanding outreach to DoD laboratories and other Basic Research facilities and venues.</li> </ul> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b></p> <ul style="list-style-type: none"> <li>- There is no change in the FY 2022 Base, as compared to the FY 2021 Base.</li> </ul>				
<b>Accomplishments/Planned Programs Subtotals</b>		5.016	5.016	5.016

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Defense Technical Information Center		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801KA / <i>Defense Technical Inform ation Center</i>	<b>Project (Number/Name)</b> 002 / <i>Information Analysis Centers</i>

**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**D. Acquisition Strategy**

N/A