Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Office of the Secretary Of Defense	Date: May 2017
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605798D8Z / *Defense Technology Analysis*

COST ($ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	15.538	22.650	24.365	-	24.365	25.898	25.921	26.327	26.880	Continuing	Continuing
P796: *Laboratory Resource Management*	-	3.835	3.155	3.462	-	3.462	3.628	3.706	3.725	3.855	Continuing	Continuing
P797: *Defense Technology Analysis*	-	3.551	4.705	6.095	-	6.095	6.628	6.768	6.805	7.043	Continuing	Continuing
P798: *Defense Support Teams*	-	1.324	2.116	2.178	-	2.178	2.256	2.302	2.314	2.395	Continuing	Continuing
P579: *Critical Technology Assessments*	-	0.731	1.202	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
P102: *Data Vulnerability Assessment and Analysis*	-	6.097	11.472	12.630	-	12.630	13.386	13.145	13.483	13.587	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Assistant Secretary of Defense for Research and Engineering (ASD(R&E)) is the principal staff advisor to the Under Secretary of Defense for Acquisition, Technology and Logistics (USD(AT&L)) and the Secretary and Deputy Secretary of Defense for Research and Engineering (R&E) matters. In this capacity, the ASD(R&E) has the responsibility to conduct analyses and studies; develop policies; provide technical leadership, oversight and advice; make recommendations; and issue guidance for Department of Defense (DoD) R&E programs. Additionally, the ASD(R&E) provides technical support to the USD(AT&L) on R&E aspects of programs subject to review by the Defense Acquisition Board, to include assessments of technology maturity consistent with DoD acquisition policy. The mission of the DoD R&E program is to create, demonstrate, prototype, and apply technology that enables affordable and decisive military superiority. Pursuing the R&E mission requires attention to: (1) identification and development of new technological opportunities; (2) insertion of new technologies into warfighting systems and operations; and (3) management and evaluation of the effectiveness of technology programs. This program element (PE) provides mission support to the Office of the ASD(R&E) (OASD(R&E)) covering a wide range of studies and analysis in support of the R&E program and its impacts to the Department's decision to fund Research, Development, Test and Evaluation (RDT&E) efforts.

The PE provides funding for the Defense Laboratory Office within the ASD(R&E). The Defense Laboratory Office mission is to craft policy and provide the oversight necessary to both preserve current and develop future DoD in-house laboratory capability such that they continue to generate mission-critical innovations that increase the U.S. military advantage and enhance U.S. national security. The Defense Laboratory Office advocates and supports the DoD laboratory system in three areas: (1) facilities and infrastructure; (2) personnel and quality of workforce; and (3) technology transfer.

The PE provides engineering, scientific, and analytical support to the ASD(R&E) in its responsibility for direction, overall quality, and content of the science and technology (S&T) program, and ensures that the technology being developed is affordable and minimizes system development risk. The Defense Technology Analysis project conducts assessments and analysis to ensure maximum utilization of research and development funds and to accomplish the overall objectives of the S&T program. Funds are required for technical, analytical and management support, equipment and supplies, travel, and publications.

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Office of the Secretary Of Defense	Date: May 2017
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605798D8Z / *Defense Technology Analysis*

The DoD's key expertise for reviewing and guiding R&E programs resides in the ASD(R&E). The ASD(R&E) staff augment their responsibilities through their connections to technology experts in various fields throughout academia, industry, and government. The Defense Support Teams project supports the directed responsibilities by building teams of technology experts to conduct program technical assessments. The teams analyze the key engineering problem areas and offer adjustments in the development and test plan; alternate technical approaches; or new technologies that could enable successful development. The teams provide unbiased reviews and gather advice from the Nation's leading technical experts.

The PE provides funding for Critical Technology Assessments within ASD(R&E). Critical Technology Assessments provide the technical reference guidance in support of development and implementation of DoD technology security policies on international transfers of defense related goods, services, and technologies. The program provides an ongoing assessment and analysis of global goods and technologies; determines significant advances in the development, production, and use of military capabilities by potential adversaries; and determines goods and technologies being developed worldwide with potential to significantly enhance or degrade U.S. military capabilities in the future.

This PE also provides funding for Data Vulnerability Assessment and Analysis to establish a joint analysis capability to conduct comprehensive assessments of unclassified information losses, engaging acquisition and intelligence sources to determine consequences and appropriate preventative/mitigation actions.

B. Program Change Summary ($ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	115.933	22.650	25.867	-	25.867
Current President's Budget	15.538	22.650	24.365	-	24.365
Total Adjustments	-100.395	0.000	-1.502	-	-1.502
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-100.000	-			
• SBIR/STTR Transfer	-0.395	-			
• DTIC Offset	-	-	-0.430	-	-0.430
• Other Adjustments	-	-	-1.072	-	-1.072

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2016	FY 2017
Project: P796: *Laboratory Resource Management*		
Congressional Add: *Defense Technology Transfer Program*	2.000	-
Congressional Add Subtotals for Project: P796	2.000	-

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Office of the Secretary Of Defense	Date: May 2017
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605798D8Z / *Defense Technology Analysis*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2016	FY 2017
Congressional Add Totals for all Projects	2.000	-

Change Summary Explanation

FY 2016 Reprogramming: $100.000 million for the cyber vulnerability assessment was reprogrammed from Defense Technology Analysis, PE 0605798D8Z, to Assessments and Evaluation, PE 0604942D8Z, for proper oversight and execution by the Office of the Assistant Secretary of Defense for Acquisition (ASD(A)).

Activities within this document reflect headquarter-wide efficiency initiatives.

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense			Date: May 2017
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605798D8Z / *Defense Technology Analysis*	Project (Number/Name) P796 / *Laboratory Resource Management*	

COST ($ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
P796: *Laboratory Resource Management*	-	3.835	3.155	3.462	-	3.462	3.628	3.706	3.725	3.855	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Defense Laboratory Office provides advocacy, strategic planning, and policy for the DoD's in-house laboratories. The DoD Laboratory Enterprise consists of more than 60 laboratories with approximately 67,000 employees (approximately 40,000 of whom are scientists and engineers). The Defense Laboratory Office develops plans and investment strategies for laboratory infrastructure, technology programs, and personnel development. Section 211 of the FY17 NDAA also transferred the management of the laboratory demonstration program at Science and Technology Reinvention Laboratories (STRLs) from USD(P&R) to the ASD(R&E). This transition requires additional resources and personnel to manage the day-to-day needs of processing lab demo authorities. A human resources specialist with experience managing unique personnel authorities will help in managing this increased workload.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018
Title: Defense Laboratory Office	1.835	3.155	3.462
Description: Provides advocacy, strategic planning, and policy for the DoD's in-house laboratories. Develops plans and investment strategies for laboratory infrastructure, technology programs, and personnel development.			
FY 2016 Accomplishments: • Continued refinement of DoD laboratory metrics for assessment of in-house lab system. Formulated recommendations to ASD(R&E) and Service leadership for improvements to identify problem areas within the lab system based upon data collected and concurrent trends analyses. • Completed survey of laboratory customers to show value that the labs and engineering centers provide to program executive and program management offices. Survey was part of the Better Buying Power 3.0 Lab “Return on Investment” initiatives. • Developed report on mechanisms for technology transfer within the DoD Labs. • Collected, analyzed, and wrote the annual Section 219 report. • Collected, analyzed, and wrote the annual DoD Technology Transfer report.			
FY 2017 Plans: • Continue strategic planning and policy development for oversight of DoD in-house laboratories. • Conduct a DoD Lab Day in the Pentagon Center Courtyard. • Develop a communication strategy surrounding the DoD Labs. • Establish Laboratory Quality Enhancement Panel for Management and Technology Transfer.			

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense		Date: May 2017
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0605798D8Z / *Defense Technology Analysis*	**Project (Number/Name)** P796 / *Laboratory Resource Management*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018
• Transition personnel responsibilities for the Science and Technology Reinvention Laboratories (STRLs) from USD(P&R) to ASD(R&E). • Process all lab demo items, to include changes to Federal Register Notices (FRNs) through modifications, new FRNs, and the adoption of existing authorities. ***FY 2018 Plans:*** • Continue strategic planning and policy development for oversight of DoD in-house laboratories. • Develop new standards for facility sustainment models for DoD labs. • Process all lab demo items, to include changes to Federal Register Notices (FRNs) through modifications, new FRNs, and the adoption of existing authorities. • Monitor status of Sec. 233 Management pilot programs at each of the Services.			
Accomplishments/Planned Programs Subtotals	1.835	3.155	3.462

	FY 2016	FY 2017
Congressional Add: Defense Technology Transfer Program	2.000	-
FY 2016 Accomplishments: There was no language associated with the $2.000M add for FY 2016. However, previous year (FY 2015) language stated: "The agreement includes $10,000,000 above the budget request for a regionally focused technology transfer innovation pilot program. The agreement directs the Assistant Secretary of Defense (Research and Engineering) to conduct a pilot program on public-private technology transfer ventures between Department of Defense research and development centers and regionally focused technology incubators, with the goal of increasing the commercialization of intellectual property developed in the Department's research and development enterprise in support of critical cross-service technological needs such as energetics, unmanned systems, and rapid prototyping. Technology incubator partners should be selected through full and open competition emphasizing strong business plans, demonstrated expertise in mentorship and commercialization, and strong regional partnerships. This language does not replace the report language on Technology Transfer included under Research, Development, Test and Evaluation, Air Force in Senate Report 113-211." The add was transferred to the US Army Aviation and Missile Research, Development, and Engineering Center (AMRDEC) for execution. AMRDEC has drafted the Partnership Intermediary Agreement Work Description, the topic of which is “Technology Transfer, Avionics Technology, and Teaming for Future Tactical Operations		

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense		Date: May 2017
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0605798D8Z / *Defense Technology Analysis*	**Project (Number/Name)** P796 / *Laboratory Resource Management*

	FY 2016	FY 2017
Challenges." This will be applied to both aviation and unmanned platforms and will be competed amongst a variety of institutions, including those in academia.		
Congressional Adds Subtotals	2.000	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

The performance of the Laboratory Resource Management project is based on the success of initiatives to implement strategic planning objectives. Measures include the quality and timeliness of policy, plans, guidance, reports, and processes.

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense			Date: May 2017
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605798D8Z / *Defense Technology Analysis*	Project (Number/Name) P797 / *Defense Technology Analysis*	

COST ($ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
P797: *Defense Technology Analysis*	-	3.551	4.705	6.095	-	6.095	6.628	6.768	6.805	7.043	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Defense Technology Analysis (DTA) project provides engineering, scientific, and analytical support to the Office of the Deputy Assistant Secretary of Defense for Research (ODASD(R)) in its responsibility for direction, overall quality, and content of the science and technology (S&T) program. Furthermore, it ensures that the technology being developed is affordable and minimizes system development risk. The DTA program conducts assessments and analyses to ensure maximum utilization of research and development funds to accomplish the overall objectives of the S&T program. Funds are required for technical, analytical, management support, travel, and publications.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018
Title: Defense Technology Analysis	3.551	4.705	6.095
Description: The Defense Technology Analysis (DTA) project provides engineering, scientific, and analytical support to the Office of the Deputy Assistant Secretary of Defense for Research (ODASD(R)) in its responsibility for direction, overall quality, and content of the science and technology (S&T) program. Furthermore, it ensures that the technology being developed is affordable and minimizes system development risk.			
FY 2016 Accomplishments: Provided engineering, scientific, analytical, and managerial support to the ODASD(R) in: • Developing strategies, plans, and policies to develop and exploit technology; • Conducting technology analyses, making recommendations, and developing guidance for S&T plans and programs; • Reviewing acquisition programs and making recommendations to optimize effectiveness of the DoD investments; • Oversight of S&T issues and initiatives and responding to Congressional special interests.			
FY 2017 Plans: Provide engineering, scientific, analytical, and managerial support to the ODASD(R) in: • Developing strategies, plans, and policies to develop and exploit technology; • Conducting technology analyses, making recommendations, and developing guidance for S&T plans and programs; • Reviewing acquisition programs and making recommendations to optimize effectiveness of the DoD investments; • Oversight of S&T issues and initiatives and responding to Congressional special interests.			
FY 2018 Plans: Provide engineering, scientific, analytical, and managerial support to the ODASD(R) in:			

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense		Date: May 2017
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0605798D8Z / *Defense Technology Analysis*	**Project (Number/Name)** P797 / *Defense Technology Analysis*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018
• Developing strategies, plans, and policies to develop and exploit technology; • Conducting technology analyses, making recommendations, and developing guidance for S&T plans and programs; • Reviewing acquisition programs and making recommendations to optimize effectiveness of the DoD investments; • Oversight of S&T issues and initiatives and responding to Congressional special interests.			
Accomplishments/Planned Programs Subtotals	3.551	4.705	6.095

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Several indicators allow the Department to measure the success of the DTA program element. The number of efforts funded and completed satisfactorily and the OASD(R&E) influence on S&T program decisions serve as valuable indicators of the program's effectiveness. Feedback into the oversight mechanisms of the program to guide investment decisions serve as additional metrics.

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense			Date: May 2017
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605798D8Z / *Defense Technology Analysis*	Project (Number/Name) P798 / *Defense Support Teams*	

COST ($ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
P798: *Defense Support Teams*	-	1.324	2.116	2.178	-	2.178	2.256	2.302	2.314	2.395	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Department's key expertise for reviewing and guiding research and engineering (R&E) programs resides in the Office of the Assistant Secretary of Defense for Research and Engineering (OASD(R&E)). The OASD(R&E) staff augment their responsibilities through connections to technology experts in various fields throughout academia, industry, and government. The Defense Support Teams project supports the directed responsibilities by building teams of technology experts to conduct program technical health check-ups. The teams analyze the key engineering problem areas and offer adjustments in the development and test plans, alternate technical approaches, or new technologies that could enable successful development. The teams provide unbiased reviews and gather advice from the Nation's leading technical experts.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018
Title: Defense Support Teams	1.324	2.116	2.178
Description: The Defense Support Teams project supports the directed responsibilities by building teams of technology experts to conduct program technical health check-ups. The teams analyze the key problem areas and offer adjustments in the development plans, alternate technical approaches, or new technologies that could enable successful development. The teams provide unbiased reviews and gather advice from the Nation's leading technical experts. ***FY 2016 Accomplishments:*** Established support teams and conducted technology analyses to support R&E program investment decisions. For selected acquisition programs and efforts, reviewed in technical detail the respective program issues and offered technical solutions to program managers. Assessed the maturity of technologies that were candidates for transition to acquisition programs. ***FY 2017 Plans:*** Establish support teams and conduct technology analyses to support R&E program investment decisions. For selected acquisition programs and efforts, review in technical detail the respective program issues and offer technical solutions to program managers. Assess the maturity of technologies that are candidates for transition to acquisition programs. ***FY 2018 Plans:*** Establish support teams and conduct technology analyses to support R&E program investment decisions. For selected acquisition programs and efforts, review in technical detail the respective program issues and offer technical solutions to program managers. Assess the maturity of technologies that are candidates for transition to acquisition programs.			
Accomplishments/Planned Programs Subtotals	1.324	2.116	2.178

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense		Date: May 2017
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0605798D8Z / *Defense Technology Analysis*	**Project (Number/Name)** P798 / *Defense Support Teams*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Several indicators allow the Department to measure the success of the Defense Technology Analysis (DTA) PE. The number of technological introspections, as evidenced by completed support teams and OASD(R&E) influence on acquisition decisions, serve as valuable indicators of the program's effectiveness. The establishment and outputs of Defense Support Teams are additional indicators of program metrics. Feedback into the oversight mechanisms of the science and technology (S&T) program, to guide investment decisions, serve as additional metrics.

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense			Date: May 2017
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605798D8Z / *Defense Technology Analysis*	Project (Number/Name) P579 / *Critical Technology Assessments*	

COST ($ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
P579: *Critical Technology Assessments*	-	0.731	1.202	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Critical Technology Assessments provide the technical reference guidance in support of development and implementation of DoD technology security policies on international transfers of defense related goods, services, and technologies. The export control program provides an ongoing assessment and analysis of global goods and technologies; determines significant advances in the development, production, and use of military capabilities by potential adversaries; and determines goods and technologies being developed worldwide with potential to significantly enhance or degrade U.S. military capabilities in the future. Identified in the Export Administration Act of 1979, and extended by Presidential Executive Order, to review militarily critical goods and technologies, and to consider worldwide technology capabilities, the Militarily Critical Technologies List (MCTL) is a congressionally-mandated source document for identification of leading edge and current technologies monitored worldwide for national security, nonproliferation control of weapons of mass destruction, and advanced conventional weapons.

Specific activities include:
- Monitor and assess dual-use and military technologies worldwide.
- Assist in the development of proposals for negotiation in various multilateral export control regimes.
- Provide limited worldwide technology capability assessments for the MCTL and other U.S. international critical technologies efforts.
- Identify and determine technical parameters for proposals for international control of weapons of mass destruction.
- Identify foreign technologies of interest to the DoD and opportunities for international cooperative research and development.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018
Title: Critical Technology Assessments	0.731	1.202	-
Description: Critical Technology Assessments provide the technical reference guidance in support of development and implementation of DoD technology security policies on international transfers of defense related goods, services, and technologies. The export control program provides an ongoing assessment and analysis of global goods and technologies; determines significant advances in the development, production, and use of military capabilities by potential adversaries; and determines goods and technologies being developed worldwide with potential to significantly enhance or degrade U.S. military capabilities in the future.			
FY 2016 Accomplishments: - Maintained technical interface to technology security organizations and functions. - Maintained interface with user community for critical technology assessments.			

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense		Date: May 2017
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0605798D8Z / *Defense Technology Analysis*	**Project (Number/Name)** P579 / *Critical Technology Assessments*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018
- Continued development of automated technology identification prototype. - Maintained prototype process and capability 'on the shelf', so-as-to enable the implementation of a DoD-wide technical reference, if required. ***FY 2017 Plans:*** - Maintain technical interface to technology security organizations and functions. - Maintain interface with user community for critical technology assessments. - Continue development of automated technology identification prototype. - Maintain prototype process and capability 'on the shelf', so-as-to enable the implementation of a DoD-wide technical reference, if required.			
Accomplishments/Planned Programs Subtotals	0.731	1.202	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

- Currency of the user community of critical technology assessments.

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense			Date: May 2017
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605798D8Z / *Defense Technology Analysis*	Project (Number/Name) P102 / *Data Vulnerability Assessment and Analysis*	

COST ($ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
P102: *Data Vulnerability Assessment and Analysis*	-	6.097	11.472	12.630	-	12.630	13.386	13.145	13.483	13.587	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Most DoD technical information resides on unclassified networks where it is at risk of being targeted for cyber espionage campaigns. Protecting DoD unclassified controlled technical information is a high priority for the Department, and is critical to preserving intellectual property and competitive capabilities of our national industrial base. To maintain full confidence in our systems, the Department must also assess the effect the loss of this information has on our warfighting capabilities. DoD contractors who produce or access controlled technical information must incorporate security standards on their networks, and report cyber-intrusion incidents that result in the loss of this information. These requirements are important, but insufficient in the face of a determined adversary. The Department must take steps to understand the impacts of losses and rethink how we safeguard our capabilities. This information, while unclassified, includes data and intellectual property concerning defense systems requirements, concepts of operations, technologies, designs, engineering, systems production, and component manufacturing.

This project supports protection of unclassified controlled technical information, and analysis of losses, to determine consequences and appropriate requirements, acquisition, programmatic, and strategic courses of action.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018
Title: Data Vulnerability Program	6.097	11.472	12.630
Description: The Data Vulnerability Assessment and Analysis project will establish a joint analysis capability to conduct comprehensive assessments of controlled unclassified technical information losses, and engaging acquisition and intelligence sources, to determine consequences and appropriate preventative/mitigation actions.			
FY 2016 Accomplishments: Developed the joint analysis capability to support net loss assessments by enabling collaboration between the acquisition, intelligence, counterintelligence, law enforcement, and operations communities as called out in the, “Strengthen cybersecurity throughout the product lifecycle,” portion of the Better Buying Power 3.0 initiative, and the DoD Cyber Strategy. The FY 2016 program demonstrated the ability of the joint analysis capability to integrate acquisition, intelligence, counterintelligence communities. The joint analysis capability integrated the Military Department’s critical acquisition programs and tiered them for proactive protection efforts. Completed initial policy guidance, signing of the Terms of Reference formally establishing the Joint Acquisition Protection and Exploitation Cell. Engaged in multiple pilots to identify feasible protection and safeguards and			

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense		Date: May 2017
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0605798D8Z / *Defense Technology Analysis*	**Project (Number/Name)** P102 / *Data Vulnerability Assessment and Analysis*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018
developed dynamic links with program protection planning activities. Continued to develop advanced analytic tools, coupled with identification of additional information feeds/sources of data. ***FY 2017 Plans:*** Continue to identify and engage appropriate partnerships, especially between the acquisition community and the Intelligence Community/Counterintelligence and Security Community. These partnerships will continue FY 2016 efforts to develop dynamic links with program protection efforts, identify and apply resources to priority programs, begin to anticipate proactive protection functions, and develop formal processes to track actions and feedback mechanisms between the various communities. Continue to develop advanced analytic tools. In FY 2017, necessary policy and guidance will be matured to enable transition of the joint analysis capability to initial operational capability. ***FY 2018 Plans:*** Develop manning for proactive protection efforts linked to the Department's critical acquisition programs and technologies. Develop links to the security community for critical acquisition programs and technologies. Identify and plan future resource requirements for enhanced security of critical acquisition programs.			
Accomplishments/Planned Programs Subtotals	6.097	11.472	12.630

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

The Data Vulnerability Assessment and Analysis metric is the number of completed cases.