Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Office of Secretary Of Defense

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 0605798D8Z: Defense Technology Analysis

BA 6: RDT&E Management Support

APPROPRIATION/BUDGET ACTIVITY

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	12.991	15.582	12.056	-	12.056	11.981	12.320	12.963	13.214	Continuing	Continuing
P796: Laboratory Resource Management	1.114	5.001	4.819	-	4.819	4.912	5.027	5.117	5.204	Continuing	Continuing
P797: Defense Technology Analysis	9.300	7.394	4.796	-	4.796	4.831	5.243	5.999	6.625	Continuing	Continuing
P798: Defense Support Teams	2.577	3.187	2.441	-	2.441	2.238	2.050	1.847	1.385	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 & 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 analysis and studies; develop policies; provide technical leadership, oversight and advice; make recommendations; and issue guidance for 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: identification and development of new technological opportunities; insertion of new technologies into warfighting systems and operations; and management and evaluation of the effectiveness of technology programs. This program element provides mission support to the Office of the ASD(R&E) (OASD(R&E)). It covers a wide range of studies and analysis in support of the R&E program and it impacts the Department's decision to fund RDT&E efforts.

The program element provides funding for the Defense Laboratory Office within the OASD(R&E)). The Defense Laboratory Office advocates and invests in the DoD laboratory system in three areas: facilities and infrastructure; quality of workforce; and global insight of critical or strategic technologies important to the Department and the Nation.

The program element also provides engineering, scientific, and analytical support to the Office of the Deputy Assistant Secretary of Defense for Research 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 program conducts assessments and analysis to ensure maximum utilization of research and development funds to accomplish the overall objectives of the S&T program. The Weapons Systems Acquisition Reform Act (WSARA) of 2009 expanded the role of the ASD(R&E) in acquisition decisions. Full implementation of the Act requires increases in both the number and depth of technology maturity assessments. Funds are required for technical, analytical and management support, equipment and supplies, travel, and publications.

The DoD's key expertise for reviewing and guiding R&E programs resides in the OASD(R&E). The OASD(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

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DATE: February 2012

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APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 0605798D8Z: Defense Technology Analysis

BA 6: RDT&E Management Support

adjustments in the development and test plan; alternate technical approaches; or new technologies that could enable successful development. The teams constitute expert non-advocate reviews and gather advice from the Nation's leading technical experts.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	
Previous President's Budget	13.858	16.135	13.172	-	13.172	
Current President's Budget	12.991	15.582	12.056	-	12.056	
Total Adjustments	-0.867	-0.553	-1.116	-	-1.116	
 Congressional General Reductions 	-	-				
 Congressional Directed Reductions 	-	-				
 Congressional Rescissions 	-	-				
 Congressional Adds 	-	-				
 Congressional Directed Transfers 	-	-				
Reprogrammings	2.193	-				
SBIR/STTR Transfer	-0.264	-0.445				
 Congressional Adjustments 	-2.700	-	-	-	-	
Economic Assumptions	-0.057	-	-	-	-	
• FFRDC	-0.036	-0.108	-	-	-	
 Other Program Adjustments 	-0.003	-	-1.116	-	-1.116	

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense DATE: February 2012											
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 6: RDT&E Management Support	& Evaluation	n, Defense-V			IOMENCLAT 8D8Z: <i>Defen</i>		gy Analysis	PROJECT P796: <i>Labo</i>	ratory Resou	ırce Manage	ement
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
P796: Laboratory Resource Management	1.114	5.001	4.819	-	4.819	4.912	5.027	5.117	5.204	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

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

The Defense Laboratory Office provides advocacy, strategic planning, and policy for the DoD's in-house laboratories. The DoD Laboratory Enterprise consists of 67 laboratories with approximately 65,000 employees and an annual budget of more than 20 billion dollars. The Defense Laboratory Office will develop plans and investment strategies for laboratory infrastructure, technology programs, and personnel development.

217 to completiment of tame of the miniments	1 1 2011	1 1 2012	1 1 2013
Title: Defense Laboratory Office	1.114	5.001	4.819
FY 2011 Accomplishments:			
Areas of emphasis included:			
Identification of Department-wide laboratory in-house core technical competencies (CTCs);			
Understanding Service and laboratory performance within CTCs;			
• Ensuring that CTCs are performing at the cutting-edge of global science, technology, and engineering;			
Advocacy for investment in CTCs; and			
Measurement of performance of the Defense laboratory enterprise.			
DoD Lab CTCs are derived from COCOM S&T Planning Scenarios, Quadrennial Defense Review Technology Area Studies, Intelligence Community products, Technology Horizon Scanning, and DoD/Service strategic plans. Laboratory fiscal information and program execution was collected via the Defense Technical Information Center (DTIC) R&E database. The Defense Laboratory Office, in partnership with DTIC, developed a new data structure and architecture which facilitated the gathering and subsequent analysis of relevant information. This new database architecture represents a consolidation of the existing R&E, Work Unit Summary, and in-house S&T report databases. From the analysis, the Laboratory Office is able to track the status of the DoD laboratory enterprise's program performance in support of the CTCs. OASD(R&E) teamed with the Services to determine modifications of programs and investments to ensure alignment of the laboratory enterprise with DoD technology goals.			
FY 2012 Plans: The ASD(R&E)/Research Directorate Laboratory Office will refine and continue to execute laboratory management responsibilities. Areas of emphasis include: • Continued identification and validation of Department-wide DoD laboratory in-house CTCs; • Understanding Service and laboratory performance within CTCs;			

FY 2011 FY 2012

FY 2013

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secreta	DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605798D8Z: Defense Technology Analysis	PROJECT P796: Labo	ratory Resource Management

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Ensuring that CTCs are performing at the cutting-edge of global science, technology, and engineering;			
Advocacy for investment in CTCs; and			
Measurement of performance of the Defense Laboratory Enterprise.			
FY 2013 Plans:			
The ASD(R&E)/Research Directorate Laboratory Office will refine and continue to execute laboratory management			
responsibilities. Areas of emphasis include:			
 Continued identification and validation of Department-wide DoD laboratory in-house CTCs; 			
Understanding Service and laboratory performance within CTCs;			
• Ensuring that CTCs are performing at the cutting-edge of global science, technology, and engineering;			
Advocacy for investment in CTCs; and			
Measurement of performance of the Defense Laboratory Enterprise.			
Accomplishments/Planned Programs Subtotals	1.114	5.001	4.819

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

N/A

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 stragegic planning objectives. Measures include the quality and timeliness of policy, plans, guidance, and processes.

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense DATE: February 2012											
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Tes BA 6: RDT&E Management Suppor	t & Evaluation	n, Defense-V			IOMENCLAT 8D8Z: <i>Defen</i>			PROJECT P797: Defense Technology Analysis			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
P797: Defense Technology Analysis	9.300	7.394	4.796	-	4.796	4.831	5.243	5.999	6.625	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

B Accomplishments/Planned Programs (\$ in Millions)

The Defense Technology Analysis (DTA) project provides engineering, scientific and analytical support to the Office of the Deputy Assistant Secretary of Defense for Research in its responsibility for direction, overall quality, and content of the S&T program and 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. The Weapons Systems Acquisition Reform Act (WSARA) of 2009 expanded the role of the ASD(R&E) in acquisition decisions. Full implementation of the Act requires increases in both the number and depth of technology maturity assessments. Funds are required for technical, analytical, and management support, travel, and publications.

B. Accomplishments/Flanned Frograms (\$\frac{1}{2}\) in Minnors	FY ZUTT	F1 2012	F1 2013
Title: DoD Technology Analysis	9.300	7.394	4.796
FY 2011 Accomplishments: The Defense Technology Analysis program funded over forty efforts in FY 2011. The funded efforts were primarily technical and programmatic support using Federally Funded Research and Development Centers (FFRDCs) and technical support services. Activities included workshops, development of congressional reports, completion of focused studies, and access to technical expertise in support of the DoD R&E program.			
FY 2012 Plans: Provide engineering, scientific, analytical, and managerial support to the Office of the Deputy Assistant Secretary of Defense for Research 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; and • Oversight of S&T issues and initiatives and responding to Congressional special interests.			
Seek opportunities for interdepartmental and international cooperation in high priority S&T. Conduct intradepartmental coordination to achieve goals as necessary.			
FY 2013 Plans:			

EV 2011 EV 2012 EV 2013

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secreta	DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605798D8Z: Defense Technology Analysis	PROJECT P797: Defe	nse Technology Analysis

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Provide engineering, scientific, analytical, and managerial support to the Office of the Deputy Assistant Secretary of Defense for			
Research in:			1
 Developing strategies, plans, and policies to develop and exploit technology; 			1
 Conducting technology analyses, making recommendations, and developing guidance for S&T plans and programs; 			1
 Reviewing acquisition programs and making recommendations to optimize effectiveness of the DoD investments; and 			1
 Oversight of S&T issues and initiatives and responding to Congressional special interests. 			
Seek opportunities for interdepartmental and international cooperation in high priority S&T. Conduct intradepartmental coordination to achieve goals as necessary.			
Accomplishments/Planned Programs Subtotals	9.300	7.394	4.79

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

N/A

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 Just			DATE: Febi	ruary 2012							
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 6: RDT&E Management Suppo	st & Evaluatio	n, Defense-V	Vide		NOMENCLA 8D8Z: <i>Defer</i>		gy Analysis	PROJECT P798: Defe	P798: Defense Support Teams		
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
P798: Defense Support Teams	2.577	3.187	2.441	-	2.441	2.238	2.050	1.847	1.385	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Department's key expertise for reviewing and guiding R&E programs resides in the OASD(R&E). The OASD(R&E) staff augments 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 constitute expert non-advocate reviews and gather advice from the Nation's leading technical experts.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Title: Defense Support Teams	2.577	3.187	2.441
FY 2011 Accomplishments: Established support teams and conducted technology analyses to support R&E program investment decisions. Continued or completed teams established in FY 2010. Reviewed in technical detail the program issues and offered technical solutions to program managers. Assessed the maturity of technologies that were candidates for transitioning to an acquisition program.			
FY 2012 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 transitioning to an acquisition program.			
FY 2013 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 transitioning to an acquisition program.			
Accomplishments/Planned Programs Subtotals	2.577	3.187	2.441

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

N/A

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense			DATE: February 2012
	R-1 ITEM NOMENCLATURE PE 0605798D8Z: Defense Technology Analysis	PROJECT P798: Defe	nse Support Teams

E. Performance Metrics

Several indicators allow the Department to measure the success of the DTA program element:

- 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 S&T program to guide investment decisions serve as additional metrics.