Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0605803A: Technical Information Activities

BA 6: RDT&E Management Support

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	52.085	50.820	33.853	-	33.853	49.436	47.139	41.726	42.499	Continuing	Continuing
720: Tech Info Func Actv	-	8.107	8.692	6.696	-	6.696	9.891	9.121	8.568	8.717	Continuing	Continuing
727: Tech Info Activities	-	14.105	15.110	10.343	-	10.343	15.466	14.285	12.748	12.977	Continuing	Continuing
729: Youth Science Activities	-	2.250	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
730: Pers & Trng Analys Act	-	2.137	2.222	1.894	-	1.894	2.324	2.297	2.227	2.265	Continuing	Continuing
731: Army High Performance Computing Centers	-	7.552	7.074	5.234	-	5.234	6.921	6.808	8.152	8.294	Continuing	Continuing
733: Acquisition Tech Act	-	14.529	14.050	2.504	-	2.504	5.512	10.246	6.199	6.345	Continuing	Continuing
C16: FAST	-	2.698	2.365	1.369	-	1.369	2.829	2.672	2.518	2.563	Continuing	Continuing
C18: <i>BAST</i>	-	0.707	1.307	0.636	-	0.636	1.647	1.541	1.314	1.338	Continuing	Continuing
DW3: Army Geospatial Enterprise Implementation	-	0.000	0.000	5.177	-	5.177	4.846	0.169	0.000	0.000	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

FY14 reduction due to lower Army TOA.

A. Mission Description and Budget Item Justification

This program element (PE) supports upgrading the accuracy, timeliness, availability, and accessibility of scientific, technical, and management information at all levels of the Army Research and Development (R&D) community. Management of this information is critical to achieve the goals established by the Army's Senior Leadership. Use of accurate and timely technical information is essential to successfully meeting the milestones required on the path to the future force, allowing Army Science and Technology (S&T) leadership to refine investment strategy and quickly react to emerging opportunities and issues. This program includes initiatives to improve information derivation, storage, access, display, validation, transmission, distribution, and interpretation; to develop and enhance a single business model for Army S&T knowledge management information technology; to provide for Independent Review Team analysis of technology maturity as part of the Technology Area Readiness Assessment as required by DoDI 5000.2 dated May 12, 2003 as well as the Army Science Board (ASB) (projects 720 and 727). This program addresses the need to increase the competitiveness and availability of scientific, engineering, and technical skills in the DoD and National workforce through outreach programs aimed at middle school through college students and teachers. By providing direct working experience for these students in Army laboratories, the programs expose these students to the working world of science and engineering (project 729). The program includes funding for studies and analyses using behavioral science-based analytic tools to provide policy and decision makers with Soldier-oriented recommendations concerning manpower, personnel, and training issues (project 730). The

PE 0605803A: Technical Information Activities

^{***} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2014 Army

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0605803A: Technical Information Activities

BA 6: RDT&E Management Support

program includes funding for support for Army high performance computing centers (project 731). The program includes funding for improvements to the Army's acquisition process (project 733). This program supports combatant commanders and major Army commands by providing science advisors to address scientific and technical issues and by providing engineering teams to solve field Army technical problems (project C16). Finally, this program funds studies by the Board on Army Science and Technology (BAST) (project C18). Coordination of this program with the other Services is achieved through inter-service working groups.

The cited work is consistent with the Assistant Secreatary of Defense for Research and Engineering science and technology priority focus areas and the Army Modernization Strategy.

Work in this PE is performed by the Research, Development, and Engineering Command (RDECOM), Aberdeen Proving Ground, MD, the Army Research Institute (ARI) for the Behavioral and Social Sciences, Arlington, VA, the Army Corps of Engineers' Engineer Research and Development Center (ERDC), Vicksburg, MS, Medical Research and Materiel Command (MRMC), Ft. Detrick, MD, Space and Missile Defense Command (SMDC), Huntsville, AL, and the Information Management Office, Arlington, VA.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	55.286	50.820	48.427	-	48.427
Current President's Budget	52.085	50.820	33.853	-	33.853
Total Adjustments	-3.201	0.000	-14.574	-	-14.574
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-3.201	-			
 Adjustments to Budget Years 	-	-	-14.574	-	-14.574

PE 0605803A: Technical Information Activities

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Exhibit R-2A, RDT&E Project J	ustification	: PB 2014 <i>F</i>	Army							DATE: Apr	11 2013	
APPROPRIATION/BUDGET AC	TIVITY				R-1 ITEM	NOMENCL	ATURE		PROJECT			
2040: Research, Development, T BA 6: RDT&E Management Supp		ation, Army			PE 0605803A: Technical Information Activities			720: Tech	Tech Info Func Actv			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
720: Tech Info Func Actv	-	8.107	8.692	6.696	-	6.696	9.891	9.121	8.568	8.717	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

Not applicable for this item.

A. Mission Description and Budget Item Justification

This project provides funding for technology transfer activities to support acquisition, storage, and utilization of technical information for both military and domestic applications. Effective exploitation of science and technology (S&T) information is critical to achieving the goals established by senior Army leadership. Activities include Army support for Federal Laboratory Consortium (FLC) as required by Public Law; the Army Science Board; the Army Science Conference; S&T database management efforts; and administration of the Army's Small Business Innovation Research (SBIR) and Small Business Technology Transfer Program (STTR) in accordance with the Small Business Innovation Development Act of 1982, the Small Business Research and Development Enhancement Act of 1992 and subsequent reauthorizing legislation. Technology transfer activities make technical information available to both the public and private sectors to reduce duplication in Research and Development programs and to increase competitiveness in the US business community. Database management efforts support development of decision aids, databases, and automation support for the management and execution of the Army Research, Development, Test and Evaluation (RDTE) appropriation. In addition, this project provides funding for patent legal expenses and fees for all Research, Development, and Engineering Command (RDECOM) subordinate commands and laboratories, as required by the Omnibus Budget Reconciliation Act.

The cited work is consistent with the Assistant Secreatary of Defense for Research and Engineering science and technology priority focus areas and the Army Modernization Strategy

Work is performed by the Research Development and Engineering Command (RDECOM), Aberdeen Proving Ground, MD and the Army Research Laboratory (ARL), Adelphi, MD.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) FY 2012 FY 2013 FY 2014 Title: Provide Army funding support for Federal Laboratory Consortium as required by Public Law 104-113. 0.247 0.247 0.245 Articles: **Description:** Funding is provided for the following effort FY 2012 Accomplishments:

PE 0605803A: Technical Information Activities

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605803A: Technical Information Activities	PROJECT 720: Tech Info Func Actv			
B. Accomplishments/Planned Programs (\$ in Millions, Article Q	uantities in Each)	I	FY 2012	FY 2013	FY 2014
Provided Army funding support for Federal Laboratory Consortium a	as required by Public Law 104-113.				
FY 2013 Plans: Provide Army funding support for Federal Laboratory Consortium as	s required by Public Law 104-113.				
FY 2014 Plans: Will provide Army funding support for Federal Laboratory Consortium	m as required by Public Law 104-113.				
<i>Title:</i> Provide administrative and contractual support for the Army S		icles:	1.380 0	2.126 0	1.71
Description: Funding is provided for the following effort.					
FY 2012 Accomplishments: Provided administrative and contractual support for the Army Science	ce Board.				
FY 2013 Plans: Provide administrative and contractual support for the Army Science	e Board.				
FY 2014 Plans: Will provide administrative and contractual support for the Army Science.	ence Board.				
Title: Administrative support for the Army's SBIR and STTR program		icles:	1.257	1.248 0	0.942
Description: Funding is provided for the following effort					
FY 2012 Accomplishments: Provided administrative support for the Army's SBIR and STTR programmer.	grams.				
FY 2013 Plans: Provide administrative support for the Army's SBIR and STTR progr	rams.				
FY 2014 Plans: Will provide administrative support for the Army's SBIR and STTR p	rograms.				
Title: Provide funding for patent fees and patent legal expenses for	` ,	ories. icles:	0.836 0	0.844 0	0.50
Description: Funding is provided for the following effort					

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE:	April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605803A: Technical Information Activities		OJECT D: Tech Info Func Actv			
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	uantities in Each)		FY 2012	FY 2013	FY 2014	
FY 2012 Accomplishments: Provided funding for patent fees and patent legal expenses for AMC	commands and laboratories.					
FY 2013 Plans: Provide funding for patent fees and patent legal expenses for AMC c	ommands and laboratories.					
FY 2014 Plans: Will provide funding for patent fees and patent legal expenses for AM	IC commands and laboratories.					
Title: Provide funding for S&T Strategic Planning and Support.		Articles:	0.382 0	0.390 0	0.385	
Description: Funding is provided for the following effort						
FY 2012 Accomplishments: Provided funding for S&T Strategic Planning and Support.						
FY 2013 Plans: Provide funding for S&T Strategic Planning and Support.						
FY 2014 Plans: Will provide funding for S&T Strategic Planning and Support.						
Title: Provide funding for the Army Science Conference.		Articles:	0.491 0	0.545 0	0.483	
Description: Funding is provided for the following effort						
FY 2012 Accomplishments: Provided funding for the Army Science Conference.						
FY 2013 Plans: Provide funding for the Army Science Conference.						
FY 2014 Plans: Will provide funding for the Army Science Conference.						
<i>Title:</i> Administer S&T database computer engineering support contra support.	act and support RDECOM databases S&T managem	nent	3.514 0	3.292 0	2.425	
		Articles:				

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0605803A: Technical Information	720: Tech I	nfo Func Actv
BA 6: RDT&E Management Support	Activities		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Description: Funding is provided for the following effort			
FY 2012 Accomplishments: Administered S&T database computer engineering support contract and supported RDECOM databases S&T management support.			
FY 2013 Plans: Administer S&T database computer engineering support contract and support RDECOM databases S&T management support.			
FY 2014 Plans: Will administer S&T database computer engineering support contract and support RDECOM databases S&T management support.			
Accomplishments/Planned Programs Subtotals	8.107	8.692	6.696

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

PE 0605803A: Technical Information Activities

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Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2014 <i>F</i>	Army							DATE: Apr	il 2013		
APPROPRIATION/BUDGET ACT 2040: Research, Development, To BA 6: RDT&E Management Supp	est & Evalua	ation, Army			PE 0605803A: Technical Information 72 Activities			PROJECT 727: Tech	ROJECT 7: Tech Info Activities				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
727: Tech Info Activities	-	14.105	15.110	10.343	-	10.343	15.466	14.285	12.748	12.977	Continuing (Continuing	
Quantity of RDT&E Articles													

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

This project funds the development of decision aids, databases, and automation support for the management and execution of the Army Research, Development, Test, and Evaluation (RDTE) Appropriation. It includes the hardware, software, and contractor support required to develop and implement a set of management decision aids, databases, and hardware/software tools to support technical and budgetary decisions at the Office of the Secretary of Defense (OSD) and Department of the Army (DA), including support of the Army Science and Technology (S&T) Master Plan. Most of the efforts in this project are on-going activities to support Army Research, Development, and Acquisition programs. Effective exploitation of S&T information is critical to achieving the goals established by Senior Army Leadership for the future force. Funding in this program supports Independent Review Team analysis of technology maturity as part of Technology Readiness Assessments as required by DoDI 5000.2 dated May 12, 2003.

The cited work is consistent with the Assistant Secreatary of Defense for Research and Engineering science and technology priority focus areas and the Army Modernization Strategy.

Work in this project is performed by the Office of the Assistant Secretary of the Army, Acquisition, Logistics and Technology, The Pentagon, Washington, DC.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Conduct and support S&T program portfolio assessments and analysis.	1.800	2.147	1.147
Articles:	0	0	
Description: Funding is provided for the following effort.			
FY 2012 Accomplishments: Conducted and supported S&T program portfolio assessments and analysis.			
FY 2013 Plans: Conduct and support S&T program portfolio assessments and analysis.			
FY 2014 Plans: Will conduct and support S&T program portfolio assessments and analysis.			
Title: Support Army S&T strategic planning, analysis, and prioritization.	7.048	8.146	6.295

PE 0605803A: Technical Information Activities

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^{***} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		,	DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support		ROJECT 27: Tech Info Activities			
B. Accomplishments/Planned Programs (\$ in Millions, Article Qua	antities in Each)		FY 2012	FY 2013	FY 2014
Description: Funding is provided for the following effort.		Articles:	0	0	
FY 2012 Accomplishments: Supported Army S&T strategic planning, analysis, and prioritization.					
FY 2013 Plans: Support Army S&T strategic planning, analysis, and prioritization.					
FY 2014 Plans: Will support Army S&T strategic planning, analysis, and prioritization.					
Title: Provide funding and support for Army Science and Technology	·	Articles:	0.950 0	0.000	0.000
Description: Funding is provided for the following effort.					
FY 2012 Accomplishments: Provided funding and support for Army Science and Technology Mast	ter Plan development and publication.				
<i>Title:</i> Provide funding and support for Army Acquisition Program Tech Decisions.	-		3.327 0	3.836 0	2.005
		Articles:			
Description: Funding is provided for the following effort.					
FY 2012 Accomplishments: Provided funding and support for Army Acquisition Program Technolo Decisions.	egy Readiness Assessments for Program Milestone				
FY 2013 Plans: Provide funding and support for Army Acquisition Program Technolog	y Readiness Assessments for Program Milestone De	ecisions.			
FY 2014 Plans: Will provide funding and support for Army Acquisition Program Technological Decisions.	ology Readiness Assessments for Program Mileston	e			
<i>Title:</i> Provide Army support to Director, Defense Research and Engin Technology oversight.	neering Executive Staff for DoD-wide Science and		0.980 0	0.981 0	0.896

PE 0605803A: *Technical Information Activities* Army

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0605803A: Technical Information	727: Tech I	Info Activities
BA 6: RDT&E Management Support	Activities		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Articles:			
Description: Funding is provided for the following effort.			
FY 2012 Accomplishments: Provided Army support to Assistant Secretary of Defense for Research and Engineering Executive Staff for DoD-wide Science and Technology oversight.			
FY 2013 Plans: Provide Army support to Assistant Secretary of Defense for Research and Engineering Executive Staff for DoD-wide Science and Technology oversight.			
FY 2014 Plans: Will provide Army support to Assistant Secretary of Defense for Research and Engineering Executive Staff for DoD-wide Science and Technology oversight.			
Accomplishments/Planned Programs Subtotals	14.105	15.110	10.343

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

PE 0605803A: Technical Information Activities

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Exhibit R-2A, RDT&E Project Ju	ıstification	: PB 2014 <i>P</i>	Army							DATE: Apr	il 2013		
APPROPRIATION/BUDGET ACT					R-1 ITEM	NOMENCL	ATURE		PROJECT				
2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support					PE 060580 Activities)3A: Techni	cal Informat	ion	729: Youth	729: Youth Science Activities			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
729: Youth Science Activities	-	2.250	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
Quantity of RDT&E Articles													

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

Army

Beginning in FY13, efforts in this area are funded in 0601104A project J14 in order to consolidate and coordinate STEM education activities.

A. Mission Description and Budget Item Justification

This project supports science, technology, engineering, and mathematics (STEM) education activities that encourage elementary thru high school students to develop and interest in STEM and to further go on and pursues higher education and employment in the STEM fields. Activities are consolidated under the Army Educational Outreach Program (AEOP) which links and networks appropriate components to derive the best synergies to "present the Army" a larger pool of technical talent. Programs provide students with Army-unique practical experiences at Army laboratories, centers, and institutes; provide incentives for student competitions and support career development opportunities for students. AEOP increases interest and involvement of students and teachers across the nation in STEM at all proficiency levels and backgrounds to include under-represented and economically disadvantaged groups through exposure to Army sponsored research, education, competitions, internships, and practical experiences. This project enhances the national pool of science and engineering personnel that in turn supports defense industry and Army laboratory and research, development, and engineering center needs. Educating the nation's youth in STEM will help ensure a technologically literate citizenry that is required to promote the security and economic competitiveness of the United States.

The cited work is consistent with the Assistant Secreatary of Defense for Research and Engineering science and technology priority focus areas and the Army Modernization Strategy.

Work is performed by the Research, Development, and Engineering Command (RDECOM), Army Research Institute (ARI), the Army Corps of Engineers, Medical Research and Materiel Command (MRMC), and Space and Missile Defense Command (SMDC).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) Title: STEM Competitions Articles: Description: This effort will be rolled into 0601104 J14 in FY13 to consolidate and coordinate STEM education activities. FY 2012 FY 2013 FY 2014 0.000 0.000 FY 2012 FY 2013 FY 2014 0.000 0.000

PE 0605803A: Technical Information Activities

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJI			
2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support	PE 0605803A: Technical Information Activities	729: Y	outh Science	Activities	
3A 0. No rac management Support	Activities				
B. Accomplishments/Planned Programs (\$ in Millions, Article Q	<u>uantities in Each)</u>		FY 2012	FY 2013	FY 2014
Provided competition incentives in STEM competitions that include s	scholarships, experiences, and mentorships as well as	expose			
students to DoD career opportunities.					
Title: STEM Experiences		A	0.801	0.000	0.000
	•	Articles:	0		
Description: This effort will be rolled into 0601104 J14 in FY13 to co	onsolidate and coordinate STEM education activities.				
FY 2012 Accomplishments:					
Increased Army Laboratory/Research, Development, and Engineerir	ng Center (RDEC) sponsorship of students and STEM				
education opportunities.					
Title: West Point Cadet Research			0.318	0.000	0.00
		Articles:	0		
Description: This effort will be rolled into 0601104 J14 in FY13 to co	onsolidate and coordinate STEM education activities.				
FY 2012 Accomplishments:					
Conducted West Point cadet research internship program to enhanc	e cadet training through field experience within Army i	research			
abs and centers.					
Title: Education Outreach and Development			0.352	0.000	0.000
	•	Articles:	0		
Description: This effort will be rolled into 0601104 J14 in FY13 to co	onsolidate and coordinate STEM education activities.				
FY 2012 Accomplishments:					
Supported AEOP to enhance AEOP outreach to under-represented	areas to enhance STEM education through student				
experiences in Army labs and academic partner institutions. Provide and their development of STEM education.	ed direct mentorship to students to broaden their intere	est in			
	Accomplishments/Planned Programs S	ubtotals	2.250	0.000	0.000

N/A

Remarks

D. Acquisition Strategy

N/A

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PE 0605803A: Technical Information Activities

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605803A: Technical Information Activities	PROJECT 729: Youth	Science Activities
E. Performance Metrics Performance metrics used in the preparation of this justification material may	y be found in the FY 2010 Army Performance B	udget Justif	ication Book, dated May 2010.

PE 0605803A: Technical Information Activities Army

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Exhibit R-2A, RDT&E Project J	xhibit R-2A, RDT&E Project Justification: PB 2014 Army											DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support						NOMENCL D3A: Techni	ATURE cal Informat		PROJECT 730: Pers	& Trng Analys Act					
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost			
730: Pers & Trng Analys Act	-	2.137	2.222	1.894	-	1.894	2.324	2.297	2.227	2.265	Continuing	Continuing			
Quantity of RDT&E Articles															

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

This project funds the Army's behavioral and social science research-based studies and analyses to address current and near term Soldier, training, and leader development issues. The research provides a unique capability to address a number of issues that directly or indirectly affect Soldier and unit performance and readiness, such as the effects of changes in training on individual and unit performance, the personnel costs of alternative programs and policies and the effects of program changes on retention of quality Soldiers. Requirements for these critical studies and analyses are solicited on an annual basis from the Chief of Staff of the Army (CSA), U.S. Army Training and Doctrine Command (TRADOC), the Assistant Secretary of the Army for Manpower and Reserve Affairs (ASA(M&RA)), the Army Deputy Chief of Staff(G-1), and the Human Resources Command (HRC).

The cited work is consistent with the Assistant Secreatary of Defense for Research and Engineering science and technology priority focus areas and the Army Modernization Strategy

Work in this project is managed by the US Army Research Institute (ARI) for the Behavioral and Social Sciences, Arlington, VA.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: PERS & TRNG ANALYS ACT	2.137	2.222	1.894
Articles:	0	0	
Description: Funding is provided for the following effort.			
FY 2012 Accomplishments: Conducted studies and analyses based on critical issues identified by the CSA, TRADOC, ASA(M&RA), the G-1, and the HRC.			
FY 2013 Plans: Conduct studies and analyses based on critical issues identified by the CSA, TRADOC, ASA(M&RA), the G-1, and the HRC.			
FY 2014 Plans: Studies and analyses will be conducted based on critical issues identified by the CSA, TRADOC, ASA(M&RA), the G-1, and the HRC.			
Accomplishments/Planned Programs Subtotals	2.137	2.222	1.894

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^{***} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0605803A: Technical Information	730: Pers & Trng Analys Act
BA 6: RDT&E Management Support	Activities	
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy N/A		
E. Performance Metrics		
Performance metrics used in the preparation of this justification ma	aterial may be found in the FY 2010 Army Performance	e Budget Justification Book, dated May 2010.

PE 0605803A: Technical Information Activities

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army											ril 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support						NOMENCL D3A: Technic		ion	PROJECT 731: Army Centers	731: Army High Performance Computing				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost		
731: Army High Performance Computing Centers	-	7.552	7.074	5.234	-	5.234	6.921	6.808	8.152	8.294	Continuing	Continuing		
Quantity of RDT&E Articles														

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

Army

Not applicable for this item.

A. Mission Description and Budget Item Justification

This project provides funding for research, education, outreach, and sustainment of the Army High Performance Computing Centers at the Army Research Laboratory (ARL), the Tank and Automotive Research, Development, and Engineering Center (TARDEC), and the Army High Performance Computing Research Center (AHPCRC) consortium. The Army High Performance Computing Centers provide high fidelity modeling, simulation, and analysis of materials, systems, and operational constructs. The Centers work with researchers at Army laboratories and research, development, and engineering centers to explore new algorithms in the computational sciences to address critical technology issues in computational research areas.

The cited work is consistent with the Assistant Secretary of Defense for Research and Engineering science and technology priority focus areas and the Army Modernization Strategy.

Work is performed by the Army Research Laboratory (ARL), Aberdeen Proving Ground, MD and the Tank and Automotive Research, Development, and Engineering Center (TARDEC), Warren, MI.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) Title: Sustain the high performance computing environment and infrastructure in support of the US Army Research Laboratory Articles: Description: Funding is provided for the following effort. FY 2012 FY 2013 FY 2014 3.929 0 0 FY 2012 FY 2013 FY 2014 3.929 0 0 FY 2012 Accomplishments: Sustained the high performance computing environment and infrastructure in support of the US Army Research Laboratory. FY 2013 Plans:

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJE	СТ		
2040: Research, Development, Test & Evaluation, Army	PE 0605803A: Technical Information			rformance Co	mputing
BA 6: RDT&E Management Support	Activities	Centers	S		
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2012	FY 2013	FY 2014
Sustain the high performance computing environment and infrastr	ructure in support of the US Army Research Laboratory.				
FY 2014 Plans:					
Will develop software and software porting to new computing archanalysis support for petabytes of output, networking R&D, classific specific SAP projects, and research computer systems to support applied research.	ed SAP scientific visualization, software maintenance for				
Title: Sustain the high performance computing environment and in Research Development and Engineering Center (TARDEC).	nfrastructure in support of the US Army Tank and Autom	otive	2.143 0	1.985 0	1.74
3 . 3 (Articles:			
Description: Funding is provided for the following effort.					
FY 2012 Accomplishments: Sustained the high performance computing environment and infra Research Development and Engineering Center (TARDEC).	structure in support of the US Army Tank and Automotiv	e			
FY 2013 Plans: Sustain the high performance computing environment and infrastr Research Development and Engineering Center (TARDEC).	ructure in support of the US Army Tank and Automotive				
FY 2014 Plans: Will sustain the high performance computing environment and infr Research Development and Engineering Center (TARDEC).	rastructure in support of the US Army Tank and Automot	ive			
Title: Sustain the high performance computing environment and in Computing Research Center's (AHPCRC) research, education, and	nd outreach activities.	Articles:	1.249 0	1.160 0	0.00
Description: Funding is provided for the following effort.					
FY 2012 Accomplishments:		nutina			
Sustained the high performance computing environment and infra Research Center's (AHPCRC) research, education, and outreach		puting			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0605803A: Technical Information	731: <i>Army</i>	High Performance Computing
BA 6: RDT&E Management Support	Activities	Centers	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Support the Army High Performance Computing Research Center's (AHPCRC) research, computational sciences environment, education, and outreach activities.			
Accomplishments/Planned Programs Subtotals	7.552	7.074	5.234

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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	Exhibit R-2A, RDT&E Project Justification: PB 2014 Army											DATE: April 2013			
	APPROPRIATION/BUDGET ACT			NOMENCL	ATURE cal Informat		PROJECT	ECT cquisition Tech Act							
2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support						Activities	JOA. Technic	carimonnat		133. Augus	Islant recti Act				
	COST (\$ in Millions) All Prior Years FY 2012 FY 2013* FY 2014			FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost			
	733: Acquisition Tech Act	-	14.529	14.050	2.504	-	2.504	5.512	10.246	6.199	6.345	Continuing	Continuing		
	Quantity of RDT&E Articles														

^{*} FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

This project funds improvements to the Army's acquisition process by applying decision support and expert information systems, and by supporting analysis and evaluation of alternative acquisition strategies using techniques such as value-added analysis and analysis-of-alternatives. This project provides the environment for the analysis and evaluation of new information technologies, concepts, and applications for integrated management activities and support dynamic Army acquisition technology requirements. This program supports analysis efforts to conduct critical analyses for Army leadership in support of Army Transformation. These analyses are used by leadership in making acquisition, procurement, and logistics decisions in order to provide quality equipment and procedures to the Soldiers.

The cited work is consistent with the Assistant Secreatary of Defense for Research and Engineering science and technology priority focus areas and the Army Modernization Strategy.

Work in this project is performed by the Army Acquisition Support Center, Ft. Belvoir, VA.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: ACQUISITION TECH ACT	8.885	7.850	2.504
Articles:	0	0	
Description: Distribute and beta test application programs and user interface utilities for executive level information systems that offer Standard Query Language services to Army Acquisition Corps corporate and global databases. Analyze acquisition program financial programming and budgeting requirements. Continue development of Weapon Systems Handbook, long-range planning and policy analysis, resource allocation analysis, cost tracking, and analysis.			
FY 2012 Accomplishments: Distributed and beta tested application programs and user interface utilities for executive level information systems that offer Standard Query Language services to Army Acquisition Corps corporate and global databases; analyzed acquisition program financial programming and budgeting requirements; continued development of Weapon Systems Handbook, long-range planning and policy analysis, resource allocation analysis, cost tracking, and analysis.			
FY 2013 Plans:			

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^{***} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: /	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support	PROJE 733: <i>Ac</i>	CT quisition Te	ch Act		
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	uantities in Each)		FY 2012	FY 2013	FY 2014
Distribute and beta test application programs and user interface utilit Query Language services to Army Acquisition Corps corporate and oprogramming and budgeting requirements; continue development of analysis, resource allocation analysis, cost tracking, and analysis.	global databases; analyze acquisition program financia	ıl			
FY 2014 Plans: Will distribute and beta test application programs and user interface Standard Query Language services to Army Acquisition Corps corpo financial programming and budgeting requirements; will continue dev planning and policy analysis, resource allocation analysis, cost track	orate and global databases; will analyze acquisition provelopment of Weapon Systems Handbook, long-range	gram			
Title: Geospatial Acquisition Support Office (GASO).		Articles:	5.644 0	6.200 0	0.000
Description: These dollars will support the front end assessments of processes address geospatial concepts, technology and standards tasked to provide a geospatial baseline system of systems in theater In FY14 these funds move to project DW3 in this Program Element.	early in their development processes. Moreover, they a	ire			
FY 2012 Accomplishments: Supported the front end assessments of the PEO requirements to enconcepts, technology and standards early in their development proces in theater, which was a near-term requirement that cannot be deferred.	esses and provided a geospatial baseline system of sy				
FY 2013 Plans:					
Support the front end assessments of the PEO requirements to ensuconcepts, technology and standards early in their development proceed theater, which is a near-term requirement that cannot be deferred.					
	Accomplishments/Planned Programs So	htotolo	14.529	14.050	2.50

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army	DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0605803A: Technical Information	733: Acquisition Tech Act
BA 6: RDT&E Management Support	Activities	
E. Performance Metrics		
Performance metrics used in the preparation of this justification ma	sterial may be found in the EV 2010 Army Performance	e Budget Justification Book, dated May 2010
	iterial may be found in the FT 2010 Army Fenomiane	e budget dustilleation book, dated May 2010.

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Exhibit R-2A, RDT&E Project J	lustification	: PB 2014 <i>P</i>	Army							DATE : Apr	il 2013	
						PROJECT C16: FAST						
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
C16: FAST	-	2.698	2.365	1.369	-	1.369	2.829	2.672	2.518	2.563	Continuing C	Continuing
Quantity of RDT&F Articles												

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

This project provides support for the Field Assistance in Science and Technology (FAST) program. The FAST program provides Science advisers, recruited from Army Materiel Command (AMC) headquarters and all AMC Major Subordinate Commands (MSC) to serve combatant commands and major commands worldwide. FAST tours of duty provide significant professional growth opportunities for the Army's scientists and engineers and enable them to focus AMC resources on rapidly identifying and solving field technical problems that enable the improvement of readiness, safety, training, and reduce operations and support (O&S) costs. The FAST activity is supported by Quick Reaction Coordinators within the engineering centers. The FAST program recoups many times its cost in O&S savings. FAST also provides emerging technology demonstration opportunities to the engineering centers and executes a biannual Technology Applications Conference (TAC) on a rotating basis between Forces Command, US Army Europe, US Forces Korea/Eighth Armyassists COCOMS with their annual Science and Technology Conferences. FAST also maintains close coordination with the Navy Science Advisor Program (Naval Fleet Forces Technology Integration Office).FAST supports warfighters in OEF with embedded Science and Technology Assistance Teams (STATs) as well as Science and Technology Acquisition Corps Advisors (STACAs).

The cited work is consistent with the Assistant Secretary of Defense for Research and Engineering science and technology priority focus areas and the Army Modernization Strategy.

Work in this project is performed by the US Army Materiel Command (AMC), Ft. Belvoir, VAResearch, Development and Engineering Command (RDECOM), Aberdeen Proving Ground, MD.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Respond to combatant commanders worldwide with technological solutions.	2.698	2.365	1.369
Articles:	0	0	
Description: Funding is provided for the following effort.			
FY 2012 Accomplishments:			

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		D	ATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0605803A: Technical Information	C16: <i>FAST</i>	
BA 6: RDT&E Management Support	Activities		
			T

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Responded to combatant commanders worldwide with technological solutions to urgent material problems they identify; deployed science advisors with US Task Forces in support of combatant commanders; executed biannual Technology Applications			
Conference.			
FY 2013 Plans: Respond to combatant commanders worldwide with technological solutions to urgent material problems they identify; deploy science advisors with US Task Forces in support of combatant commanders; execute biannual Technology Applications Conference.			
FY 2014 Plans: Will respond to combatant commanders worldwide with technological solutions to urgent material problems they identify; will deploy science advisors with US Task Forces in support of combatant commanders; will execute biannual Technology Applications Conference.			
Accomplishments/Planned Programs Subtotals	2.698	2.365	1.369

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

N/A

Remarks

D. Acquisition Strategy

N/A

Army

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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EXHIBIT K-ZA, KDT&E Project Ju	Suncation	. PD 2014 F	ATTIY							DATE. Apr	11 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army						NOMENCL 03A: Techni	ATURE cal Informat		PROJECT			
BA 6: RDT&E Management Support Activities												
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
C18: BAST	-	0.707	1.307	0.636	-	0.636	1.647	1.541	1.314	1.338	Continuing C	Continuing
Quantity of RDT&F Articles												

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit P 2A PDT9 E Project Justification: PR 2014 Army

Note

Not applicable for this item.

A. Mission Description and Budget Item Justification

This project funds the Board on Army Science and Technology (BAST). The BAST functions under the auspices of the National Research Council (NRC) an organization within the National Academies of Sciences and provides an external, independent, and objective source of advice to the Army. The BAST serves as a convening authority for the discussion of science and technology issues of importance to the Army and oversees independent Army-related studies conducted by the National Academies. Working in close coordination with the Army, the BAST helps define problems, brings together experts to study these problems, and provides recommendations. Committees are assembled in accordance with established NRC procedures and BAST studies often take 12 months or more to conclude.

The cited work is consistent with the Assistant Secreatary of Defense for Research and Engineering science and technology priority focus areas and the Army Modernization Strategy.

Work in this project is executed extramurally by the Army Research Laboratory, Army Research Office (ARO), Research Triangle Park, NC.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) FY 2012 FY 2013 FY 2014 Title: Provide studies and conducts periodic meetings to help identify, assess, and recommend emerging opportunities in science 0.707 1.307 0.636 and technology fields applicable to the US Army. Articles: **Description:** Funding is provided for the following effort. FY 2012 Accomplishments: Studied emerging topics based on Army S&T strategy and senior leader initiatives. FY 2013 Plans: Study emerging topics based on Army S&T strategy and senior leader initiatives. FY 2014 Plans:

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^{***} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0605803A: Technical Information	C18: BAST	-
BA 6: RDT&E Management Support	Activities		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
These topics will again be selected according to Army S&T strategy and senior leader initiatives.			
Accomplishments/Planned Programs Subtotals	0.707	1.307	0.636

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army									DATE: Apr	il 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support						R-1 ITEM NOMENCLATURE PE 0605803A: Technical Information Activities PROJECT DW3: Army Geospatial Enterprise			al Enterprise	;		
COST (\$ in Millions)	All Prior Years		FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
DW3: Army Geospatial Enterprise Implementation	-	0.000	0.000	5.177	-	5.177	4.846	0.169	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles												

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

Support the front end assessments of the PEO requirements to ensure that system's acquisition processes address geospatial concepts, technology and standards early in their development processes and provide a geospatial baseline system of systems in theater, which is a near-term requirement that cannot be deferred. Previously funded in project 733 in this PE.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Geospatial Acquisition Support Office	0.000	0.000	5.177
Description: This effort supports the front end assessments of the PEO requirements to ensure that system's acquisition processes address geospatial concepts, technology and standards early in their development processes and provide a geospatial baseline system of systems in theater, which is a near-term requirement that cannot be deferred. FY 2014 Plans: Will support the front end assessments of the PEO requirements to ensure that system's acquisition processes address geospatial concepts, technology and standards early in their development processes and provide a geospatial baseline system of systems in theater, which is a near-term requirement that cannot be deferred.			
Accomplishments/Planned Programs Subtotals	0.000	0.000	5.177

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

N/A

Remarks

D. Acquisition Strategy

N/A

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E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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^{##} The FY 2014 OCO Request will be submitted at a later date