

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>				R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>							
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	49.579	55.286	50.820	-	50.820	48.427	51.240	50.770	51.243	Continuing	Continuing
720: <i>TECH INFO FUNC ACTV</i>	8.534	8.630	8.692	-	8.692	8.455	8.910	8.498	8.646	Continuing	Continuing
727: <i>TECH INFO ACTIVITIES</i>	9.187	14.833	15.110	-	15.110	12.998	13.873	13.223	12.748	Continuing	Continuing
729: <i>YOUTH SCIENCE ACTIV</i>	4.552	3.123	-	-	-	-	-	-	-	Continuing	Continuing
730: <i>PERS & TRNG ANALYS ACT</i>	1.280	2.193	2.222	-	2.222	2.157	2.185	2.212	2.247	Continuing	Continuing
731: <i>ARMY HIGH PERFORMANCE COMPUTING CENTERS (AHPCC)</i>	7.479	7.678	7.074	-	7.074	7.012	7.900	7.931	8.226	Continuing	Continuing
733: <i>ACQUISITION TECH ACT</i>	15.365	15.335	14.050	-	14.050	14.292	14.781	15.275	15.521	Continuing	Continuing
C16: <i>FAST</i>	2.153	2.764	2.365	-	2.365	2.277	2.304	2.330	2.541	Continuing	Continuing
C18: <i>BAST</i>	1.029	0.730	1.307	-	1.307	1.236	1.287	1.301	1.314	Continuing	Continuing

Note

A congressional reduction of \$9.000M and \$.500M congressional add in FY12.
FY13 funding transfer to PE 0601104A Youth Sciences Activities to support higher priority efforts.

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 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

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army	DATE: February 2012
---	----------------------------

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>
--	--

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 Secretary 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.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>
Previous President's Budget	48.309	63.872	71.390	-	71.390
Current President's Budget	49.579	55.286	50.820	-	50.820
Total Adjustments	1.270	-8.586	-20.570	-	-20.570
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	2.793	-			
• SBIR/STTR Transfer	-1.269	-			
• Adjustments to Budget Years	-	-	-20.570	-	-20.570
• Other Adjustments 1	-0.254	-0.086	-	-	-
• Other Adjustments 2	-	-8.500	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>				R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>				PROJECT 720: <i>TECH INFO FUNC ACTV</i>			
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
720: <i>TECH INFO FUNC ACTV</i>	8.534	8.630	8.692	-	8.692	8.455	8.910	8.498	8.646	Continuing	Continuing
Quantity of RDT&E Articles											

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 Secretary 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 2011	FY 2012	FY 2013
Title: Provide Army funding support for Federal Laboratory Consortium as required by Public Law 104-113. <div style="text-align: right;">Articles:</div>	0.234 0	0.247 0	0.247
Description: Funding is provided for the following effort FY 2011 Accomplishments: Provided Army funding support for Federal Laboratory Consortium as required by Public Law 104-113. FY 2012 Plans:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
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 Quantities in Each)		FY 2011	FY 2012	FY 2013
Provide Army funding support for Federal Laboratory Consortium as required by Public Law 104-113. FY 2013 Plans: Will provide Army funding support for Federal Laboratory Consortium as required by Public Law 104-113.				
Title: Provide administrative and contractual support for the Army Science Board. Articles: Description: Funding is provided for the following effort. FY 2011 Accomplishments: Provided administrative and contractual support for the Army Science Board. FY 2012 Plans: Provide administrative and contractual support for the Army Science Board. FY 2013 Plans: Will provide administrative and contractual support for the Army Science Board.		2.034 0	2.112 0	2.126
Title: Administrative support for the Army's SBIR and STTR programs. Articles: Description: Funding is provided for the following effort FY 2011 Accomplishments: Provided administrative support for the Army's SBIR and STTR programs. FY 2012 Plans: Provide administrative support for the Army's SBIR and STTR programs. FY 2013 Plans: Will provide administrative support for the Army's SBIR and STTR programs.		1.230 0	1.250 0	1.248
Title: Provide funding for patent fees and patent legal expenses for Army Materiel Command (AMC) commands and laboratories. Articles: Description: Funding is provided for the following effort FY 2011 Accomplishments:		0.905 0	0.844 0	0.844

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
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 Quantities in Each)		FY 2011	FY 2012	FY 2013
Provided funding for patent fees and patent legal expenses for AMC commands and laboratories. FY 2012 Plans: Provide funding for patent fees and patent legal expenses for AMC commands and laboratories. FY 2013 Plans: Will provide funding for patent fees and patent legal expenses for AMC commands and laboratories.				
Title: Provide funding for S&T Strategic Planning and Support. Description: Funding is provided for the following effort FY 2011 Accomplishments: Provided funding for S&T Strategic Planning and Support. FY 2012 Plans: Provide funding for S&T Strategic Planning and Support. FY 2013 Plans: Will provide funding for S&T Strategic Planning and Support.		Articles: 0.378 0	0.390 0	0.390
Title: Provide funding for the Army Science Conference. Description: Funding is provided for the following effort FY 2011 Accomplishments: Provided funding for the Army Science Conference. FY 2012 Plans: Provide funding for the Army Science Conference. FY 2013 Plans: Will provide funding for the Army Science Conference.		Articles: 0.545 0	0.495 0	0.545
Title: Administer S&T database computer engineering support contract and support RDECOM databases S&T management support. Description: Funding is provided for the following effort		Articles: 3.208 0	3.292 0	3.292

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>		R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>		PROJECT 720: <i>TECH INFO FUNC ACTV</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				
<i>FY 2011 Accomplishments:</i> Administered S&T database computer engineering support contract and support RDECOM databases S&T management support. <i>FY 2012 Plans:</i> Administer S&T database computer engineering support contract and support RDECOM databases S&T management support. <i>FY 2013 Plans:</i> Will administer S&T database computer engineering support contract and support RDECOM databases S&T management support.		FY 2011	FY 2012	FY 2013
Accomplishments/Planned Programs Subtotals		8.534	8.630	8.692
C. Other Program Funding Summary (\$ in Millions) N/A				
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.				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army								DATE: February 2012			
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 727: TECH INFO ACTIVITIES			
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
727: TECH INFO ACTIVITIES	9.187	14.833	15.110	-	15.110	12.998	13.873	13.223	12.748	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
<p>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.</p> <p>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.</p> <p>Work in this project is performed by the Office of the Assistant Secretary of the Army, Acquisition, Logistics and Technology, The Pentagon, Washington, DC.</p>											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2011	FY 2012	FY 2013	
<p>Title: Conduct and support S&T program portfolio assessments and analysis.</p> <p>Articles:</p> <p>Description: Funding is provided for the following effort.</p> <p>FY 2011 Accomplishments: Conducted and supported S&T program portfolio assessments and analysis.</p> <p>FY 2012 Plans: Conduct and support S&T program portfolio assessments and analysis.</p> <p>FY 2013 Plans: Will conduct and support S&T program portfolio assessments and analysis.</p>								2.500 0	1.800 0	2.147	
<p>Title: Support Army S&T strategic planning, analysis, and prioritization.</p> <p>Articles:</p>								3.010 0	7.676 0	8.146	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
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 727: TECH INFO ACTIVITIES		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Description: Funding is provided for the following effort. FY 2011 Accomplishments: Supported Army S&T strategic planning, analysis, and prioritization. FY 2012 Plans: Support Army S&T strategic planning, analysis, and prioritization. FY 2013 Plans: Will support Army S&T strategic planning, analysis, and prioritization.				
Title: Provide funding and support for Army Science and Technology Master Plan development and publication. Articles:		0.950 0	0.950 0	-
Description: Funding is provided for the following effort. FY 2011 Accomplishments: Provided funding and support for Army Science and Technology Master Plan development and publication. FY 2012 Plans: Provide funding and support for Army Science and Technology Master Plan development and publication.				
Title: Provide funding and support for Army Acquisition Program Technology Readiness Assessments for Program Milestone Decisions. Articles:		2.237 0	3.427 0	3.836
Description: Funding is provided for the following effort. FY 2011 Accomplishments: Provided funding and support for Army Acquisition Program Technology Readiness Assessments for Program Milestone Decisions. FY 2012 Plans: Provide funding and support for Army Acquisition Program Technology Readiness Assessments for Program Milestone Decisions. FY 2013 Plans:				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>	PROJECT 727: <i>TECH INFO ACTIVITIES</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
Will provide funding and support for Army Acquisition Program Technology Readiness Assessments for Program Milestone Decisions.			
Title: Provide Army support to Director, Defense Research and Engineering Executive Staff for DoD-wide Science and Technology oversight. Articles: Description: Funding is provided for the following effort. FY 2011 Accomplishments: Provided Army support to Assistant Secretary of Defense for Research and Engineering Executive Staff for DoD-wide Science and Technology oversight. FY 2012 Plans: Provide Army support to Assistant Secretary of Defense for Research and Engineering Executive Staff for DoD-wide Science and Technology oversight. FY 2013 Plans: Will provide Army support to Assistant Secretary of Defense for Research and Engineering Executive Staff for DoD-wide Science and Technology oversight.		0.490 0	0.980 0
Accomplishments/Planned Programs Subtotals		9.187	14.833
C. Other Program Funding Summary (\$ in Millions) N/A			
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.			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army								DATE: February 2012			
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 ACTIV			
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
729: YOUTH SCIENCE ACTIV	4.552	3.123	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											
Note 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 <p>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.</p> <p>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.</p> <p>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).</p>											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2011	FY 2012	FY 2013	
Title: STEM Competitions Articles: Description: This effort will be rolled into 0601104 J14 in FY13 to consolidate and coordinate STEM education activities. FY 2011 Accomplishments: Provided student competition incentives in STEM competitions that include scholarships, experiences, and mentorships as well as expose students to DoD career opportunities. FY 2012 Plans:								1.711	1.228	-	
								0	0		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>	PROJECT 729: <i>YOUTH SCIENCE ACTIV</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
Providing competition incentives in STEM competitions that include scholarships, experiences, and mentorships as well as expose students to DoD career opportunities.			FY 2013
Title: STEM Experiences Description: This effort will be rolled into 0601104 J14 in FY13 to consolidate and coordinate STEM education activities. FY 2011 Accomplishments: Increased Army Laboratory/Research, Development, and Engineering Center (RDEC) sponsorship of students and STEM education opportunities. FY 2012 Plans: Increasing Army Laboratory/Research, Development, and Engineering Center (RDEC) sponsorship of students and STEM education opportunities.		1.706 0	1.216 0
Title: West Point Cadet Research Description: This effort will be rolled into 0601104 J14 in FY13 to consolidate and coordinate STEM education activities. FY 2011 Accomplishments: Conducted West Point cadet research internship program to enhance cadet training through field experience within Army research labs and centers. FY 2012 Plans: Conducting West Point cadet research internship program to enhance cadet training through field experience within Army research labs and centers.		0.314 0	- 0
Title: Education Outreach and Development Description: This effort will be rolled into 0601104 J14 in FY13 to consolidate and coordinate STEM education activities. FY 2011 Accomplishments: Supported AEOP outreach to under-represented areas to enhance STEM education through student experiences in Army labs and academic partner institutions. Provided direct mentorship to students to broaden their interest in and their development of STEM education. FY 2012 Plans:		0.821 0	- 0

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>		R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>		PROJECT 729: <i>YOUTH SCIENCE ACTIV</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Support AEOP to enhance AEOP outreach to under-represented areas to enhance STEM education through student experiences in Army labs and academic partner institutions. Provide direct mentorship to students to broaden their interest in and their development of STEM education.				
Accomplishments/Planned Programs Subtotals		4.552	3.123	-
C. Other Program Funding Summary (\$ in Millions) N/A				
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.				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army								DATE: February 2012			
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 730: PERS & TRNG ANALYS ACT			
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
730: PERS & TRNG ANALYS ACT	1.280	2.193	2.222	-	2.222	2.157	2.185	2.212	2.247	Continuing	Continuing
Quantity of RDT&E Articles											
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 Secretary 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 2011	FY 2012	FY 2013	
Title: PERS & TRNG ANALYS ACT Articles: Description: Funding is provided for the following effort. FY 2011 Accomplishments: Studies and analyses done based on critical issues identified by TRADOC, ASA(M&RA), the Army Deputy Chief of Staff, G-1, and the HRC. FY 2012 Plans: Conduct studies and analyses based on critical issues identified by the CSA, TRADOC, ASA(M&RA), the G-1, and the HRC. FY 2013 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.								1.280	2.193	2.222	
								0	0		
Accomplishments/Planned Programs Subtotals								1.280	2.193	2.222	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>	PROJECT 730: <i>PERS & TRNG ANALYS ACT</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
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.		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
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 731: ARMY HIGH PERFORMANCE COMPUTING CENTERS (AHPCC)			
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
731: ARMY HIGH PERFORMANCE COMPUTING CENTERS (AHPCC)	7.479	7.678	7.074	-	7.074	7.012	7.900	7.931	8.226	Continuing	Continuing
Quantity of RDT&E Articles											

Note

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)

	FY 2011	FY 2012	FY 2013
Title: Sustain the high performance computing environment and infrastructure in support of the US Army Research Laboratory DoD Supercomputing Resource Center (DSRC).	4.171	4.260	3.929
Articles:	0	0	
Description: Funding is provided for the following effort.			
FY 2011 Accomplishments: Sustained the high performance computing environment and infrastructure in support of the US Army Research Laboratory DoD Supercomputing Resource Center (DSRC).			
FY 2012 Plans:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
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 731: ARMY HIGH PERFORMANCE COMPUTING CENTERS (AHPCC)		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Sustain the high performance computing environment and infrastructure in support of the US Army Research Laboratory DoD Supercomputing Resource Center (DSRC). FY 2013 Plans: Will sustain the high performance computing environment and infrastructure in support of the US Army Research Laboratory and DoD Supercomputing Resource Center (DSRC).				
Title: Sustain the high performance computing environment and infrastructure in support of the US Army Tank and Automotive Research Development and Engineering Center (TARDEC). Articles: Description: Funding is provided for the following effort. FY 2011 Accomplishments: Sustained the high performance computing environment and infrastructure in support of the US Army Tank and Automotive Research Development and Engineering Center (TARDEC). FY 2012 Plans: Sustain the high performance computing environment and infrastructure in support of the US Army Tank and Automotive Research Development and Engineering Center (TARDEC). FY 2013 Plans: Will sustain the high performance computing environment and infrastructure in support of the US Army Tank and Automotive Research Development and Engineering Center (TARDEC).		2.102 0	2.169 0	1.985
Title: Sustain the high performance computing environment and infrastructure in support of the Army High Performance Computing Research Center's (AHPCRC) research, education, and outreach activities. Articles: Description: Funding is provided for the following effort. FY 2011 Accomplishments: Sustained the high performance computing environment and infrastructure in support of the Army High Performance Computing Research Center's (AHPCRC) research, education, and outreach activities. FY 2012 Plans:		1.206 0	1.249 0	1.160

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>	PROJECT 731: <i>ARMY HIGH PERFORMANCE COMPUTING CENTERS (AHPCC)</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
Sustain the high performance computing environment and infrastructure in support of the Army High Performance Computing Research Center's (AHPCRC) research, education, and outreach activities.			
FY 2013 Plans: Will support the Army High Performance Computing Research Center's (AHPCRC) research, computational sciences environment, education, and outreach activities.			
Accomplishments/Planned Programs Subtotals		7.479	7.678
C. Other Program Funding Summary (\$ in Millions) N/A			
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.			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army								DATE: February 2012			
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 733: ACQUISITION TECH ACT			
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
733: ACQUISITION TECH ACT	15.365	15.335	14.050	-	14.050	14.292	14.781	15.275	15.521	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
<p>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.</p> <p>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.</p> <p>Work in this project is performed by the Army Acquisition Support Center, Ft. Belvoir, VA.</p>											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2011	FY 2012	FY 2013	
<p>Title: Army Materiel Systems Analysis Activity (AMSAA) analytical support for the Program Executive Officers.</p> <p>Articles:</p> <p>Description: Army Materiel Systems Analysis Activity (AMSAA) analytical support for the Program Executive Officers. The AMSAA support activities include system performance analysis, technology and risk assessment, modeling and simulation new methodolgy development/validation/accreditation, business case analyses, integrated logistics support/supportability analyses, operation and support cost reduction, and reliability improvement.</p> <p>FY 2011 Accomplishments:</p> <p>Supported activities include system performance analysis, technology and risk assessment, modeling and simulation new methodolgy development/validation/accreditation, business case analyses, integrated logistics support/supportability analyses, operation and support cost reduction, and reliability improvement.</p>								3.862 0	-	-	
<p>Title: ACQUISITION TECH ACT</p> <p>Articles:</p> <p>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</p>								6.757 0	9.335 0	7.850	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
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 733: ACQUISITION TECH ACT		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
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 2011 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 2012 Plans: 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 2013 Plans: Will 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; will analyze acquisition program financial programming and budgeting requirements; will continue development of Weapon Systems Handbook, long-range planning and policy analysis, resource allocation analysis, cost tracking, and analysis.				
Title: Geospatial Acquisition Support Office (GASO).		4.746	6.000	6.200
Articles:		0	0	
Description: These dollars 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. Moreover, they are tasked to provide a geospatial baseline system of systems in theater, which is a near-term requirement that cannot be deferred.				
FY 2011 Accomplishments: Supported 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 2012 Plans:				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>		R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>		PROJECT 733: <i>ACQUISITION TECH ACT</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
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.				
<i>FY 2013 Plans:</i> 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 will provide a geospatial baseline system of systems in theater, which is a near-term requirement that cannot be deferred.				
Accomplishments/Planned Programs Subtotals		15.365	15.335	14.050
C. Other Program Funding Summary (\$ in Millions) N/A				
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.				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
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 C16: FAST			
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
C16: FAST	2.153	2.764	2.365	-	2.365	2.277	2.304	2.330	2.541	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
<p>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).</p> <p>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.</p> <p>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.</p>											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2011	FY 2012	FY 2013	
Title: Respond to combatant commanders worldwide with technological solutions.								2.153	2.764	2.365	
Articles:								0	0		
Description: Funding is provided for the following effort.											
FY 2011 Accomplishments: Responded to combatant commanders worldwide with technological solutions to urgent materiel problems they identify; deploy science advisors with US Task Forces in support of combatant commanders; execute biannual Technology Applications Conference.											
FY 2012 Plans:											

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>		R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>		PROJECT C16: <i>FAST</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Respond to combatant commanders worldwide with technological solutions to urgent materiel problems they identify; deploy science advisors with US Task Forces in support of combatant commanders; execute biannual Technology Applications Conference.				
FY 2013 Plans: Will respond to combatant commanders worldwide with technological solutions to urgent materiel problems they identify; deploy science advisors with US Task Forces in support of combatant commanders; execute biannual Technology Applications Conference.				
Accomplishments/Planned Programs Subtotals		2.153	2.764	2.365
C. Other Program Funding Summary (\$ in Millions) N/A				
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.				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012																																		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>				R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>				PROJECT C18: <i>BAST</i>																																			
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																																
C18: <i>BAST</i>	1.029	0.730	1.307	-	1.307	1.236	1.287	1.301	1.314	Continuing	Continuing																																
Quantity of RDT&E Articles																																											
<p>Note Not applicable for this item.</p> <p>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.</p> <p>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.</p> <p>Work in this project is executed extramurally by the Army Research Laboratory, Army Research Office (ARO), Research Triangle Park, NC.</p> <p>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</p> <table border="1"> <thead> <tr> <th></th> <th>FY 2011</th> <th>FY 2012</th> <th>FY 2013</th> </tr> </thead> <tbody> <tr> <td>Title: Provide studies and conducts periodic meetings to help identify, assess, and recommend emerging opportunities in science and technology fields applicable to the US Army.</td> <td align="right">1.029</td> <td align="right">0.730</td> <td align="right">1.307</td> </tr> <tr> <td align="right">Articles:</td> <td align="right">0</td> <td align="right">0</td> <td></td> </tr> <tr> <td>Description: Funding is provided for the following effort.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FY 2011 Accomplishments: Studied emerging topics based on Army S&T strategy and senior leader initiatives.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FY 2012 Plans: Study emerging topics based on Army S&T strategy and senior leader initiatives.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FY 2013 Plans: These topics will again be selected according to Army S&T strategy and senior leader initiatives.</td> <td></td> <td></td> <td></td> </tr> <tr> <td align="right">Accomplishments/Planned Programs Subtotals</td> <td align="right">1.029</td> <td align="right">0.730</td> <td align="right">1.307</td> </tr> </tbody> </table>													FY 2011	FY 2012	FY 2013	Title: Provide studies and conducts periodic meetings to help identify, assess, and recommend emerging opportunities in science and technology fields applicable to the US Army.	1.029	0.730	1.307	Articles:	0	0		Description: Funding is provided for the following effort.				FY 2011 Accomplishments: Studied emerging topics based on Army S&T strategy and senior leader initiatives.				FY 2012 Plans: Study emerging topics based on Army S&T strategy and senior leader initiatives.				FY 2013 Plans: These topics will again be selected according to Army S&T strategy and senior leader initiatives.				Accomplishments/Planned Programs Subtotals	1.029	0.730	1.307
	FY 2011	FY 2012	FY 2013																																								
Title: Provide studies and conducts periodic meetings to help identify, assess, and recommend emerging opportunities in science and technology fields applicable to the US Army.	1.029	0.730	1.307																																								
Articles:	0	0																																									
Description: Funding is provided for the following effort.																																											
FY 2011 Accomplishments: Studied emerging topics based on Army S&T strategy and senior leader initiatives.																																											
FY 2012 Plans: Study emerging topics based on Army S&T strategy and senior leader initiatives.																																											
FY 2013 Plans: These topics will again be selected according to Army S&T strategy and senior leader initiatives.																																											
Accomplishments/Planned Programs Subtotals	1.029	0.730	1.307																																								

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605803A: <i>Technical Information Activities</i>	PROJECT C18: <i>BAST</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
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.		