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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0604115A: TECHNOLOGY MATURATION INITIATIVES							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	-	-	10.181	-	10.181	19.771	73.154	197.288	199.903	Continuing	Continuing
DS3: Technology Maturation Initiatives	-	-	10.181	-	10.181	19.771	73.154	197.288	199.903	Continuing	Continuing

Note

New PE and Project funds technology maturation efforts, including competitive prototyping, for selected pre-Milestone B programs of record to support the Army's efforts to meet the Weapons System Review Act (WSARA) 2009 and DoD 5000.2 goals of ensuring competition while maturing Science and Technology (S&T) efforts to Technology Readiness Level (TRL) 7.

A. Mission Description and Budget Item Justification

This Program Element (PE) develops and demonstrates selected technology enabled capabilities to support advanced ground and aviation systems, precision weapons, and soldier equipment. Funding facilitates demonstration of relatively mature technologies and systems in relevant environments and tactical / operational scenarios, taking technologies through and beyond Technology Readiness Level (TRL) 6. Efforts include competitive prototyping earlier in development to facilitate transition of new capabilities into acquisition programs of record. Efforts funded will be selected by an Army Senior Executive Steering Committee to ensure that demonstrations have high potential for filling capability gaps and transition. This new PE provides the Army an improved mechanism for fulfilling the goals of the Weapon Systems Acquisition Reform Act (WSARA) of 2009 by enabling greater competition in the latter stages of technology maturation and establishes a closer alignment between Science and Technology (S&T) programs and acquisition programs.

The cited work is consistent with the Director, Defense Research and Engineering Strategic Plan, the Army Modernization Strategy, and the Army Science and Technology Master Plan.

Work in this PE is performed by the Research, Development and Engineering Command (RDECOM), Engineering Research Development Center (ERDC), and/or Space and Missile Defense Command (SMDC).

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B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	10.181	-	10.181
Total Adjustments	-	-	10.181	-	10.181
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	10.181	-	10.181

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
DS3: <i>Technology Maturation Initiatives</i>	-	-	10.181	-	10.181	19.771	73.154	197.288	199.903	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 develops and demonstrates selected technology enabled capabilities to support advanced ground and aviation systems, precision weapons, and soldier equipment. Funding facilitates demonstration of relatively mature technologies and systems in relevant environments and tactical / operational scenarios, taking technologies through and beyond Technology Readiness Level (TRL) 6. Efforts include competitive prototyping earlier in development to facilitate transition of new capabilities into acquisition programs of record. Efforts funded will be selected by an Army Senior Executive Steering Committee (ESC) to ensure that demonstrations have high potential for filling capability gaps and transition. This new PE provides the Army an improved mechanism for fulfilling the goals of the Weapon Systems Acquisition Reform Act (WSARA) of 2009 by enabling greater competition in the latter stages of technology maturation and establishes a closer alignment between Science and Technology (S&T) programs and acquisition programs.</p> <p>The cited work is consistent with the Director, Defense Research and Engineering Strategic Plan, the Army Modernization Strategy, and the Army Science and Technology Master Plan.</p> <p>Work in this PE is performed by the Research, Development and Engineering Command (RDECOM), Engineering Research Development Center (ERDC), and/or Space and Missile Defense Command (SMDC).</p>											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2010	FY 2011	FY 2012	
<p>Title: Design, Fabricate, Evaluate, and Demonstrate</p> <p>Description: This effort will establish the Senior ESC, including governance, and will select one or more technologies in advanced ground systems, aviation systems, precision weapons, and/or soldier equipment that show high promise for achieving full potential to execute the necessary continuation of design, fabrication, evaluation, and demonstration within a high fidelity and realistic operating environment to transition into formal programs of record.</p> <p>FY 2012 Plans:</p>								-	-	10.181	

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
Will select at least one or more prototyping efforts and initiate with FY12 funds. Examples of the candidates include: experimentation and maturation of Combat Identification approaches; demonstration of state-of-the-art technology enablers; and experimentation with Deployable Force Protection technologies			
Accomplishments/Planned Programs Subtotals		-	10.181
C. Other Program Funding Summary (\$ in Millions)			
N/A			
D. Acquisition Strategy			
Multiple competitive contracts will be awarded based on selection of efforts from the Senior ESC. The various developmental programs in this project will continue to exercise competitively awarded contracts using best value source selection procedures.			
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.			