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| Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army | | | | | | | | | DATE: February 2010 | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support | | | | R-1 ITEM NOMENCLATURE PE 0605718A: Army Modeling & Sim X-Cmd Collaboration & Integ | | | | | | | |
| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost |
| Total Program Element | 5.159 | 5.328 | 3.926 | 0.000 | 3.926 | 3.482 | 3.541 | 3.636 | 3.702 | Continuing | Continuing |
| S02: HQDA DECISION SUPPORT TOOLS & SERVICES | 1.091 | 1.670 | 0.483 | 0.000 | 0.483 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | Continuing |
| S03: Analysis M&S Tools and Services | 2.905 | 2.112 | 1.988 | 0.000 | 1.988 | 1.988 | 2.024 | 2.076 | 2.113 | Continuing | Continuing |
| S05: SIMULATION TECHNOLOGY (SIMTECH) PROGRAM | 1.163 | 1.546 | 1.455 | 0.000 | 1.455 | 1.494 | 1.517 | 1.560 | 1.589 | Continuing | Continuing |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | |
| Army Modeling and Simulation Cross-Command Collaboration and Integration (M&SC3I) promotes the Army's goal to achieve affordable, interoperable and networked Modeling and Simulation (M&S) capabilities. In support of Army operations, Generating-Force functions and institutional processes, M&SC3I addresses analytical efforts underlying decision making, capability development and life-cycle costs by capitalizing on M&S technologies (accomplished through collaborative efforts of the training/operations and acquisition communities). The RDTE component of M&SC3I encompasses programs that (1) develop new M&S models and improve existing M&S models to reduce time, resources and risks associated with operational/institutional decision making and the acquisition process and (2) advance the following disciplines: M&S research, analysis and experimentation; simulation technology; and M&S tools and services. M&SC3I applies to development of tactics and doctrine, experimentation and exercises, traditional weapon system development, and assessment and transition of advanced technologies to operational capabilities. The overarching goal of M&SC3I is to reduce the time and cost of providing improved capabilities to the war fighter. Emerging information-age technologies continue to revolutionize the Army's ability to collaborate among all stakeholders using data descriptions, digital representations, and virtual prototypes to improve understanding of required capabilities, shorten procurement time, reduce procurement and sustainment costs, and, ultimately, reduce total lifecycle cost. M&SC3I advocates the use of advanced technologies to enable Future-Force capabilities through improved understanding of operational requirements, collaborative analyses of emerging technologies, and cross-domain participation in experiments and exercises. The following is a description of key programs under the three projects of PE 0605718. Under the project "HQDA Decision Support Tools and Services" the Army develops (1) the Cross-Command Collaboration Effort (3CE) and (2) the enhanced ARFORGEN Synchronization Tool (AST). (ARFORGEN = Army Force Generation.). The 3CE is a cross-command M&S and data environment for design, development, integration, and testing of capabilities, systems, and prototypes across the life cycle of a program; 3CE promotes the science and technology, analysis, experimentation, development, and testing of all products within the DOTMLPF continuum; DOTMLPF = Doctrine, Organization, Training, Materiel, Leadership, Personnel, and Facilities. The 3CE is a consistent, reliable and reusable environment that meets the common requirements of all commands and Army Program Managers (PMs) who employ M&S to conduct DOTMLPF development. The 3CE achieves significant cost avoidance by reducing duplication of effort; maximizing reuse of tools, data and services; and ensuring interoperability. The enhanced AST provides for current and out-year synchronization and optimization of Generating Force functions with respect to operational and contingency timelines and home-station readiness requirements. | | | | | | | | | | | |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army | | | | DATE: February 2010 | |
| APPROPRIATION/BUDGET ACTIVITY | | R-1 ITEM NOMENCLATURE | | | |
| 2040: Research, Development, Test & Evaluation, Army | | PE 0605718A: Army Modeling & Sim X-Cmd Collaboration & Integ | | | |
| BA 6: RDT&E Management Support | | | | | |
| Synchronization occurs among the ARFORGEN functional modules of equipping, manning, training and resourcing. Under the project "Analysis M&S Tools and Services," the Army develops common and cross-cutting M&S tools for concept development, analysis, acquisition, evaluation and experimentation. The primary developers/users of these tools are the Training and Doctrine Command Analysis Center (TRAC), the Army Materiel Systems Analysis Activity (AMSAA), and the Center for Army Analysis (CAA). Additionally, Army M&S Capability Area Teams (CATs) conduct HQDA-directed research to develop solutions for high priority M&S objectives impacting current and future operations. CATs focus, first and foremost, on areas that have near-term operational impact or have been difficult to model but are, nonetheless, critical to closing capability gaps. Under the project "Army Simulation Technology (SIMTECH)," the Army enhances Current and Future Force effectiveness by inducing research organizations on an immediate/short-term basis to conduct high-priority, promising simulation research initiatives that are outside the scope of Small Business Innovative Research and Army Science and Technology programs. SIMTECH directs simulation research initiatives toward immediate and short-term Army needs and serves as a catalyst for major technology breakthroughs in M&SC3I, embedded simulation, rapid prototyping, commercial innovation, and related simulation technology. | | | | | |
| B. Program Change Summary (\$ in Millions) | | | | | |
| | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| Previous President's Budget | 5.308 | 5.357 | 3.947 | 0.000 | 3.947 |
| Current President's Budget | 5.159 | 5.328 | 3.926 | 0.000 | 3.926 |
| Total Adjustments | -0.149 | -0.029 | -0.021 | 0.000 | -0.021 |
| • Congressional General Reductions | | -0.029 | | | |
| • Congressional Directed Reductions | | 0.000 | | | |
| • Congressional Rescissions | 0.000 | 0.000 | | | |
| • Congressional Adds | | 0.000 | | | |
| • Congressional Directed Transfers | | 0.000 | | | |
| • Reprogrammings | 0.000 | 0.000 | | | |
| • SBIR/STTR Transfer | -0.149 | 0.000 | | | |
| • Adjustments to Budget Years | 0.000 | 0.000 | -0.021 | 0.000 | -0.021 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Army | | | | | | | | DATE: February 2010 | | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i> | | | | R-1 ITEM NOMENCLATURE PE 0605718A: <i>Army Modeling & Sim X-Cmd Collaboration & Integ</i> | | | | PROJECT S02: <i>HQDA DECISION SUPPORT TOOLS & SERVICES</i> | | | |
| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost |
| S02: <i>HQDA DECISION SUPPORT TOOLS & SERVICES</i> | 1.091 | 1.670 | 0.483 | 0.000 | 0.483 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | Continuing |
| Quantity of RDT&E Articles | | | | | | | | | | | |
| A. Mission Description and Budget Item Justification <p>The project "HQDA Decision Support Tools and Services" provides decision support tools and services for the Army staff and forward operating agencies assigned to the Headquarters, Department of the Army. Two major Modeling and Simulation programs are funded under this project during FY09-11. These are the Cross-Command Collaboration Effort (3CE) and the enhanced ARFORGEN Synchronization Tool (AST). (ARFORGEN = Army Force Generation). The 3CE is a cross-command M&S and data environment for design, development, integration and testing of capabilities, systems and prototypes across the life cycle of a program; 3CE promotes the science and technology, analysis, experimentation, development and testing of all products within the DOTMLPF continuum; DOTMLPF = Doctrine, Organization, Training, Materiel, Leadership, Personnel and Facilities. The 3CE identifies, develops, integrates and maintains a core set of M&S tools, data and business processes; develops, maintains and provides interoperable connectivity to link the participating organizations; and provides the common 3CE environment and expertise to leverage 3CE capabilities. The 3CE process achieves cost avoidance by reducing duplication of effort; maximizing reuse of tools, data and services; and ensuring interoperability. The AST, directed in the Army Campaign Plan, is the only tool in operation under ARFORGEN that is capable of synchronizing vital readiness requirements. The synchronization occurs across the ARFORGEN functional modules of equipping, manning, training and resourcing. The enhanced AST links operational and contingency timelines (Generating Force efforts) to home station readiness and training requirements. The enhanced AST enables the Army to conduct out-year assessments in managing the Active and Reserve component forces through ARFORGEN within the Joint Force Provider (JFP)/Global Force Management (GFM) processes. Several efforts under this project are identified by Army M&S Capability Area Teams (CATs), who conduct HQDA-directed research to develop solutions for high priority M&S objectives impacting current war fighting capabilities. Army M&S CATs focus, first and foremost, on areas that have near-term operational impact or have been difficult to model but are, nonetheless, critical to closing capability gaps.</p> | | | | | | | | | | | |
| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | | | | | | |
| | | | | | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total | |
| Program #1 | | | | | | 0.275 | 0.281 | 0.216 | 0.000 | 0.216 | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Army | | | DATE: February 2010 | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support | R-1 ITEM NOMENCLATURE PE 0605718A: Army Modeling & Sim X-Cmd Collaboration & Integ | PROJECT S02: HQDA DECISION SUPPORT TOOLS & SERVICES | | | |
| B. Accomplishments/Planned Program (\$ in Millions) | | | | | |
| | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| FY09-11, Cross-Command Collaboration Effort (3CE). Funds will enable the expansion of 3CE across the entire Army (beyond its current limited use) to develop system-of-systems concepts, prototypes, and test and evaluation methodologies. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO | | | | | |
| Program #2 FY09-11, Enhanced ARFORGEN Synchronization Tool (AST). Funds enhance the AST by allowing data for unit type to be shown by requirement code and component code when dealing with readiness associations. This will enable identification of a unit's position within the ARFORGEN cycle. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 | 0.256 | 0.262 | 0.267 | 0.000 | 0.267 |
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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Army | | | | DATE: February 2010 | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support | | R-1 ITEM NOMENCLATURE PE 0605718A: Army Modeling & Sim X-Cmd Collaboration & Integ | | PROJECT S02: HQDA DECISION SUPPORT TOOLS & SERVICES | | |
| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | |
| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| FY 2011 Base Plans: FY 2011 Base | | | | | | |
| FY 2011 OCO Plans: FY 2011 OCO | | | | | | |
| Program #3 FY09-10, Capability gaps identified by M&S CATs. FY09 funds will enable the Army to find M&S solutions to capability gaps in the areas of correlated terrain development--constructive simulations, standardization and performance exchange formats among M&S systems, UK-US battle command interoperability, M&S in an irregular warefare environment. FY10 funds will be applied to M&S in an irregular warefare environment | | 0.560 | 1.080 | 0.000 | 0.000 | 0.000 |
| FY 2009 Accomplishments: FY 2009 | | | | | | |
| FY 2010 Plans: FY 2010 | | | | | | |
| FY 2011 Base Plans: FY 2011 Base | | | | | | |
| FY 2011 OCO Plans: FY 2011 OCO | | | | | | |
| Program #4 Small Business Innovative Research/Small Business Technology Transfer Program | | 0.000 | 0.047 | 0.000 | 0.000 | 0.000 |
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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Army | | | | DATE: February 2010 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i> | | R-1 ITEM NOMENCLATURE PE 0605718A: <i>Army Modeling & Sim X-Cmd Collaboration & Integ</i> | | PROJECT S02: <i>HQDA DECISION SUPPORT TOOLS & SERVICES</i> | | | | |
| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | | | |
| | | | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| <i>FY 2009 Accomplishments:</i> FY 2009 <i>FY 2010 Plans:</i> FY 2010 <i>FY 2011 Base Plans:</i> FY 2011 Base <i>FY 2011 OCO Plans:</i> FY 2011 OCO | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | 1.091 | 1.670 | 0.483 | 0.000 | 0.483 |
| 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. | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Army | | | | | | | | DATE: February 2010 | | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i> | | | | R-1 ITEM NOMENCLATURE PE 0605718A: <i>Army Modeling & Sim X-Cmd Collaboration & Integ</i> | | | | PROJECT S03: <i>Analysis M&S Tools and Services</i> | | | |
| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost |
| S03: <i>Analysis M&S Tools and Services</i> | 2.905 | 2.112 | 1.988 | 0.000 | 1.988 | 1.988 | 2.024 | 2.076 | 2.113 | Continuing | Continuing |
| Quantity of RDT&E Articles | | | | | | | | | | | |
| A. Mission Description and Budget Item Justification Under the project "Analysis M&S Tools and Services" the Army develops Modeling and Simulation (M&S) tools and services (e.g., hardware, software, infrastructure) for the Army's analysis community. The primary users of these tools and services are the Training and Doctrine Command Analysis Center (TRAC), the Army Materiel Systems Analysis Activity (AMSAA), and the Center for Army Analysis (CAA). Efforts focus on (1) development of analysis tools that will enable assessment of emerging technologies during concept exploration and (2) development of infrastructure and enabling technologies to support the Current and Future Force. These critical efforts are required for analysis-of-futures work to justify Army requirements, assessment of alternative approaches to satisfy those requirements, and development of current and emerging war fighting doctrine from tactical to operational levels of warfare. Many efforts funded under this project are identified by Army M&S Capability Area Teams (CATs), who conduct HQDA-directed research to develop solutions for high priority M&S objectives impacting current war fighting capabilities. Army M&S CATs focus, first and foremost, on areas that have near-term operational impact or have been difficult to model but are, nonetheless, critical to closing capability gaps. Presently, CATs are placing emphasis on Army M&S data strategy and modeling for Irregular Warfare (IW). | | | | | | | | | | | |
| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | | | | | | |
| | | | | | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total | |
| Program #1 FY09-11, Funds will enable the Army to represent in simulation the emerging operational M&S concepts that will become an essential part of the Gobar Employment of the Force (GEF). <i>FY 2009 Accomplishments:</i> FY 2009 | | | | | | 0.400 | 0.409 | 0.418 | 0.000 | 0.418 | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Army | | | DATE: February 2010 | | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support | R-1 ITEM NOMENCLATURE PE 0605718A: Army Modeling & Sim X-Cmd Collaboration & Integ | PROJECT S03: Analysis M&S Tools and Services | | | | |
| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | |
| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| FY 2010 Plans: FY 2010 | | | | | | |
| FY 2011 Base Plans: FY 2011 Base | | | | | | |
| FY 2011 OCO Plans: FY 2011 OCO | | | | | | |
| Program #2 FY09-11, Army modeling and simulation data strategy. Funds will enable the M&S community to collect, store and disseminate M&S data. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO | | 0.400 | 0.409 | 0.418 | 0.000 | 0.418 |
| Program #3 FY09-11, Capability gaps identified by M&S CATS. Funds will enable Army to find M&S solutions to capability gaps in irregular warfare, non-lethal technologies, social networks, cyberspace operations, battle command | | 2.105 | 1.235 | 1.152 | 0.000 | 1.152 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Army | | | | DATE: February 2010 | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support | | R-1 ITEM NOMENCLATURE PE 0605718A: Army Modeling & Sim X-Cmd Collaboration & Integ | | PROJECT S03: Analysis M&S Tools and Services | | |
| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | |
| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| systems, counter-insurgency operations, and other areas. FY09 funds focus heavily on irregular warfare, identified in the January 09 "Quadrennial Roles and Missions Review" as one of four primary roles of DoD. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO | | | | | | |
| Program #4 Small Business Innovative Research/Small Business Technology Transfer Program FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO | | 0.000 | 0.059 | 0.000 | 0.000 | 0.000 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Army | | | | DATE: February 2010 | | | | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i> | R-1 ITEM NOMENCLATURE PE 0605718A: <i>Army Modeling & Sim X-Cmd Collaboration & Integ</i> | PROJECT S03: <i>Analysis M&S Tools and Services</i> | | | | | | | |
| <u>B. Accomplishments/Planned Program (\$ in Millions)</u> | | | | | | | | | |
| | | | | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| Accomplishments/Planned Programs Subtotals | | | | | 2.905 | 2.112 | 1.988 | 0.000 | 1.988 |
| <u>C. Other Program Funding Summary (\$ in Millions)</u> N/A | | | | | | | | | |
| <u>D. Acquisition Strategy</u> N/A | | | | | | | | | |
| <u>E. Performance Metrics</u> 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 2011 Army | | | | | | | | DATE: February 2010 | | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i> | | | | R-1 ITEM NOMENCLATURE PE 0605718A: <i>Army Modeling & Sim X-Cmd Collaboration & Integ</i> | | | | PROJECT S05: <i>SIMULATION TECHNOLOGY (SIMTECH) PROGRAM</i> | | | |
| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost |
| S05: <i>SIMULATION TECHNOLOGY (SIMTECH) PROGRAM</i> | 1.163 | 1.546 | 1.455 | 0.000 | 1.455 | 1.494 | 1.517 | 1.560 | 1.589 | Continuing | Continuing |
| Quantity of RDT&E Articles | | | | | | | | | | | |
| A. Mission Description and Budget Item Justification <p>The Army Simulation Technology (SIMTECH) program enhances Current and Future Force effectiveness by inducing Modeling and Simulation (M&S) research agencies and organizations to conduct high-priority, promising simulation technology research that is outside the scope of the Small Business Innovative Research (SBIR) and the Army science and technology programs. The SIMTECH program provides a source of competitive funds to Army research agencies and organizations to stimulate high quality, innovative M&S research with significant opportunity for payoff in Army war fighting capability. The SIMTECH program focuses simulation technology research initiatives on immediate short-term Army capability requirements by including a theme in the annual call for proposals. The SIMTECH program serves as a catalyst for major M&SC3I-related technology breakthroughs in embedded simulation, collaboration, rapid prototyping, commercial innovation, and related simulation technology. (M&SC3I = Modeling and simulation Cross-Command Collaboration and Integration.) Successful SIMTECH projects are generally transitioned to start-up projects and existing Army simulation programs. SIMTECH activities are performed by the Army Materiel Command, the Army Corps of Engineers Engineer Research and Development Center, the Army Research Institute, the Army Training and Doctrine Command Analysis Center, the Program Executive Office for Simulation, Training and Instrumentation (PEO-STRI) and other Army agencies.</p> | | | | | | | | | | | |
| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | | | | | | |
| | | | | | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total | |
| Program #1 FY09-11, Mobility Common Operational Picture (MCOP) effort; geoBattlefield Management Language (geoBML); and integrated use of common geo-environmental, maneuver, and command and control behaviors across battle command systems. Funds will enable Army to improve commonality and consistency in the simulation results of an operations plan (OPLAN) during mission rehearsal. <i>FY 2009 Accomplishments:</i> FY 2009 | | | | | | 0.500 | 0.511 | 0.522 | 0.000 | 0.522 | |

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| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | |
| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| FY 2010 Plans: FY 2010 | | | | | | |
| FY 2011 Base Plans: FY 2011 Base | | | | | | |
| FY 2011 OCO Plans: FY 2011 OCO | | | | | | |
| Program #2 FY09-11, GIS-Enabled Modeling and Simulation Project (GEMS) (GIS = Geospatial Information & Services). Funds will increase interoperability of M&S and C4ISR systems with GEMs. (C4ISR = Command, Control, Communication, Computers, Intelligence, Surveillance, reconnaissance.) FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO | | 0.400 | 0.409 | 0.418 | 0.000 | 0.418 |
| Program #3 | | 0.263 | 0.582 | 0.515 | 0.000 | 0.515 |
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| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | |
| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| FY09-11, Improvement of the various components of M&S in accordance with priorities established by SIMTECH managers. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO | | | | | | |
| Program #4 Small Business Innovative Research/Small Business Technology Transfer Program FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO | | 0.000 | 0.044 | 0.000 | 0.000 | 0.000 |

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|--|---|---|--|----------------------------|----------------|-------------------------|------------------------|--------------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2011 Army | | | | DATE: February 2010 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i> | R-1 ITEM NOMENCLATURE PE 0605718A: <i>Army Modeling & Sim X-Cmd Collaboration & Integ</i> | PROJECT S05: <i>SIMULATION TECHNOLOGY (SIMTECH) PROGRAM</i> | | | | | | |
| <u>B. Accomplishments/Planned Program (\$ in Millions)</u> | | | | | | | | |
| | | | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| Accomplishments/Planned Programs Subtotals | | | | 1.163 | 1.546 | 1.455 | 0.000 | 1.455 |
| <u>C. Other Program Funding Summary (\$ in Millions)</u> N/A | | | | | | | | |
| <u>D. Acquisition Strategy</u> N/A | | | | | | | | |
| <u>E. Performance Metrics</u> 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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