Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense

APPROPRIATION/BUDGET ACTIVITY

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

BA 3: Advanced Technology Development (ATD)

R-1 ITEM NOMENCLATURE

PE 0603832D8Z: DoD Modeling and Simulation Management Office

DATE: April 2013

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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	-	29.860	47.433	41.370	-	41.370	45.890	48.770	50.052	51.025	Continuing	Continuing
P476: DoD Modeling and Simulation Management Office	-	29.860	36.433	30.370	-	30.370	34.890	37.770	39.052	40.025	Continuing	Continuing
P477: Effects Chain Analyses Cell	-	0.000	11.000	11.000	-	11.000	11.000	11.000	11.000	11.000	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

Modeling and Simulation (M&S) supports the full range and scope of Department of Defense (DoD) operations. M&S is a key enabler of capabilities supporting real-world applications that underpin innovative solutions meeting national security challenges, act as force multipliers, save resources, and save lives. The DoD Modeling and Simulation Management Office (MSMO), designated by the Under Secretary of Defense for Acquisition, Technology, and Logistics (USD(AT&L)) to be the focal point for DoD M&S, enhances the DoD M&S Enterprise by (1) enabling cooperation and collaboration in identifying, developing and sustaining M&S solutions; and (2) promoting common architectures, standards, and services that improve interoperability, reuse, and cost effectiveness of DoD M&S.

This Program supports the goals of DoD's M&S Strategic Vision, which are:

Goal 1. Standards, architectures, networks and environments that:

- Promote the sharing of tools, data, and information across the Enterprise.
- · Foster common formats.
- Are readily accessible and can be reliably applied by users.

Goal 2. Policies at the enterprise level that:

- Promote interoperability and the use of common M&S capabilities.
- Minimize duplication and encourage reuse of M&S capabilities.
- Encourage research and development to respond to emerging challenges.
- Limit the use of models and data encumbered by proprietary restrictions.
- Leverage M&S capabilities across DoD, other government agencies, International partners, industry, and academia.

Goal 3. Management processes for models, simulations, and data that:

- Enable M&S users and developers to easily discover and share M&S capabilities and provide incentives for their use.
- Facilitate the cost-effective and efficient development and use of M&S systems and capabilities.
- Include practical validation, verification, and accreditation guidelines that vary by application area.

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

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense

R-1 ITEM NOMENCLATURE

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

BA 3: Advanced Technology Development (ATD)

PE 0603832D8Z: DoD Modeling and Simulation Management Office

DATE: April 2013

Goal 4. Tools in the form of models, simulations, and authoritative data that:

- Support the full range of DoD interests.
- Provide timely and credible results.

APPROPRIATION/BUDGET ACTIVITY

- Make capabilities, limitations, and assumptions easily visible.
- · Are useable across communities.

Goal 5. People that:

- Are well-trained.
- Employ existing models, simulation, and data to support departmental objectives.
- Advance M&S to support emerging departmental challenges.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	29.977	47.433	48.158	-	48.158
Current President's Budget	29.860	47.433	41.370	-	41.370
Total Adjustments	-0.117	0.000	-6.788	-	-6.788
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.108	-			
SBIR/STTR Transfer	-	-			
Baseline Adjustments	-	-	-6.788	-	-6.788
Other Adjustments	-0.009	-	-	-	=

Change Summary Explanation

Baseline adjustments are reflective of DoD priorities and requirements.

	Exhibit R-2A, RDT&E Project Ju	stification	: PB 2014 C	Office of Sec	cretary Of D	efense					DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM	NOMENCL	ATURE		PROJECT				
	0400: Research, Development, Te			se-Wide			32D8Z: <i>DoD</i>	•			Modeling a	and Simulat	ion
	BA 3: Advanced Technology Deve	elopment (A	TD)			Simulation	Manageme	ent Office		Manageme	ent Office		
	COST (\$ in Millions)	All Prior			FY 2014	FY 2014	FY 2014					Cost To	Total
	COST (\$ III WIIIIOIIS)	Years	FY 2012	FY 2013 [#]	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Cost
	P476: DoD Modeling and	-	29.860	36.433	30.370	-	30.370	34.890	37.770	39.052	40.025	Continuing	Continuing
	Simulation Management Office												

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

A. Mission Description and Budget Item Justification

Modeling and Simulation (M&S) supports the full range and scope of Department of Defense (DoD) operations. M&S is a key enabler of capabilities supporting real-world applications that underpin innovative solutions meeting national security challenges, act as force multipliers, save resources, and save lives. The DoD Modeling and Simulation Management Office (MSMO), designated by the Under Secretary of Defense for Acquisition, Technology, and Logistics (USD(AT&L)) to be the focal point for DoD M&S, enhances the DoD M&S Enterprise by (1) enabling cooperation and collaboration in identifying, developing and sustaining modeling and simulation solutions; and (2) promoting common M&S architectures standards, and services that improve interoperability, reuse, and cost effectiveness of DoD M&S. The USD(AT&L), under the authority of DoD Directive 5134.1, provides the oversight for this Program Element (PE) with advice and assistance from a flag-officer level M&S Steering Committee. The PE is executed by MSMO in accordance with DoD Directive 5000.59, "Management of Modeling and Simulation;" DoD Instruction 5000.70, "Management of DoD Modeling and Simulation (M&S) Activities;" DoD 4120.24-M, "DoD Standardization Program (DSP) Policies and Procedures;" and DoD Instruction 3200.14, "Principles and Operational Parameters of the DoD Scientific and Technical Information Program."

MSMO is responsible for:

- Executing DoD's M&S Strategic vision.
- Bringing together M&S stakeholders to advise and assist on finding solutions for removing the barriers to interoperability, reuse, commonality, efficiency, and effectiveness.
- Developing and coordinating, with advice and assistance from the M&S Steering Committee, policy/guidance, technology, standards, best practices, and strategic planning processes that promote interoperability and reuse.
- Managing funds to support DoD M&S Enterprise activities.

MSMO also serves as DoD's:

- Lead Standardization Activity (LSA) for managing M&S standards and methodologies.
- Focal point for coordinating DoD M&S outreach activities and interactions within DoD, with other U.S. Government Departments and Agencies, International Allies, industry and academia.

This program supports the goals of DoD's M&S Strategic Vision, which are:

Goal 1. Standards, architectures, networks and environments that:

• Promote the sharing of tools, data, and information across the Enterprise.

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

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of D	DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0603832D8Z: DoD Modeling and	P476: DoD	Modeling and Simulation
BA 3: Advanced Technology Development (ATD)	Simulation Management Office	Manageme	ent Office

- Foster common formats.
- Are readily accessible and can be reliably applied by users.

Goal 2. Policies at the enterprise level that:

- Promote interoperability and the use of common M&S capabilities.
- Minimize duplication and encourage reuse of M&S capabilities.
- Encourage research and development to respond to emerging challenges.
- Limit the use of models and data encumbered by proprietary restrictions.
- Leverage M&S capabilities across DoD, other government agencies, International partners, industry, and academia.

Goal 3. Management processes for models, simulations, and data that:

- Enable M&S users and developers to easily discover and share M&S capabilities and provide incentives for their use.
- Facilitate the cost-effective and efficient development and use of M&S systems and capabilities.
- Include practical validation, verification, and accreditation guidelines that vary by application area.

Goal 4. Tools in the form of models, simulations, and authoritative data that:

- Support the full range of DoD interests.
- Provide timely and credible results.
- Make capabilities, limitations, and assumptions easily visible.
- Are useable across communities.

Goal 5. People that:

- Are well-trained.
- Employ existing models, simulation, and data to support departmental objectives.
- Advance M&S to support emerging departmental challenges.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: DoD Modeling and Simulation Management Office	29.860	36.433	30.370
Description: Modeling and Simulation (M&S) supports the full range and scope of Department of Defense (DoD) operations. M&S is a key enabler of capabilities supporting real-world applications that underpin innovative solutions meeting national security challenges, act as force multipliers, save resources, and save lives.			
FY 2012 Accomplishments: The focus for FY 2012 was on developing new enterprise strategies; refining data standards and common architectures; populating repositories supporting reuse; rationalizing the use of proprietary tools (consistent with the FAR); improving tools to			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary	y Of Defense		DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603832D8Z: DoD Modeling and Simulation Management Office	PROJECT P476: DoD Modeling and Simulation Management Office			ation
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
model irregular warfare; enhancing interactions with our international part academia, interagency partners; and providing M&S education to the wor		stry,			
As recognition for some of its efforts, the Modeling and Simulation Coordinavard from The Technical Cooperation Program (TTCP).	ination Office received the "M&S Standards Guide	eline"			
The tasks executed in FY 2012 divided into three classes: development a coordination activities.	activities, sustainment activities, and managemen	nt/			
Specific tasks for FY 2012 included:					
Development Activities:					
 Executed DoD M&S Enterprise high level tasks endorsed by the M&S SRapid Data Generation (RDG) and the Environmental Data Cube Support methodology and tools. Irregular Warfare (IW) Modeling & Simulation for enhanced analytical call and dissemination of M&S IW tools. Cyber Operations Research and Network Analysis (CORONA) for new ofLVC-AR Implementation & Net-Centric Environment Implications for integrated Threat Systems Modeling & Simulation for improved represeDoD Enterprise M&S Catalog for improved visibility into DoD M&S asse Continued developing Enterprise System Engineering M&S Data requiredContinued development of the Common Data Production Environment (Interprise DoD Global Force Management Data initiative. Initiated new M&S Core enterprise capabilities activities. Continued revising the Defense Acquisition University (DAU) M&S courseworkforce. Developed M&S data enterprise business plan guide, identified and document of the DoD M&S data enterprise of the Do	ort System (EDCSS) for enhanced environmental apabilities and continued coordination of the development of the development of disparate M&S architectures. Intation and implementation of intelligence data. Its supporting enhanced interoperability and reuse ements, architecture, and standards for M&S Data CDPE) and finalized incremental technical capabilities content and curriculum to support well-trained sumented M&S data technical, acquisition and thitecture, and standards for M&S Data by initiating the DoD M&S Discovery Metadata Specification istics data.	e. a. ilities for M&S			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secreta	ry Of Defense	DATE:	April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603832D8Z: DoD Modeling and Simulation Management Office	l l	PROJECT P476: DoD Modeling and Simulation Management Office		
B. Accomplishments/Planned Programs (\$ in Millions) Produced the M&S Standards Guideline for TTCP. Led the DoD M&S Enabling Cyber Workshop. Participated in the inaugural National Modeling and Simulation Coalitio. Produced a new M&S Community of Interest (COI) Discovery Metadata. Coordinated the application of EDCSS in a Fleet Synthetic Training (FS). Supported the development of new approaches to using M&S in acquise Sustainment Activities:	a Specification (MSC-DMS) version 1.5 for M&S d ST) exercise.	FY 2012 ata.	FY 2013	FY 2014	
 Continued managing existing M&S standards. Continued testing compliance to HLA standard for simulations supporti Continued refining and populating the DoD Enterprise M&S catalog may and useable. Maintained and synchronized the MSMO strategic calendar with DoD at Sustained the MSMO support agreements and contracts. Coordinated M&S support contracts reviews. Coordinated with DHS and DOE for presentation at the 2011 Interservit Conference (I/ITSEC). Published the M&S Journal. Maintained the M&S Coordination office website. 	aking authoritative tools and data more widely acceand international M&S activities.	essible			
Management / Coordination Activities:					
 Continued as the DoD Lead Standardization Activity (LSA) for managir interoperability and reuse of M&S within the DoD, other U.S. governmen Continued serving as the DoD M&S focal point for M&S activities and f Planned, prepared, coordinated, and managed the meetings of the flag providing advice and assistance to the USD(AT&L) on M&S. Planned, prepared, coordinated, and managed the meetings of the Dol advice and assistance to the M&S Steering Committee. Published the M&S Instruction (DoDI 5000.70) providing additional direction to the long term success of the DoD M&S Enterprise. Provided functional oversight and technical direction to DTIC's Modeling 	of agencies, and international M&S communities. For collaboration within the DoD. g-officer level DoD M&S Steering Committee (SC) D M&S Integrated Process Team (IPT) for providing ection and guidance for DoD M&S policy and gove or maintain and sustain M&S tools, data, and services	for ng rnance. es vital			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secreta	ary Of Defense	DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603832D8Z: DoD Modeling and Simulation Management Office	PROJECT P476: DoD Modeling and Simulation Management Office		ation
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
 Continued the implementation of metrics for improving the execution of Coordinated and reviewed four quarterly program management review Supported the development and planning of the National Modeling an Continued coordination with the Simulation Interoperability Standards voting of M&S standards supporting interoperability. Continued working actively with other standard organizations for the dM&S. Served as the DoD M&S focal point for M&S activities and collaboration Department of Homeland Security (DHS), the Department of Energy (DMS) are as the DoD M&S focal point for M&S activities and collaboration for Peace (PfP) nations, The Technical Cooperation Program (TTCP), UROK) and other Allies. Continued engaging Modeling & Simulation Community of Interest (Managed, supported, and participated in the Data Management Workitechnical challenges for the HLTs and the DoD M&S data enterprise. Assisted OSD AT&L / STEM Office in development of Science, Technimanagement tool. 	ws for the High Level Tasks sponsored by this PE. Ind Simulation Coalition industry technology initiative Organization (SISO) for governance and development and promulgation of standards relating on with non-DoD, federal agencies including the DOE), the Department of Justice (DOJ), and the Nation with International agencies including NATO, Paunited States Force Korea, Republic of Korea (USIAS COI) activities for integrating M&S Enterprise Exing Group (DMWG) activities to address M&S data	es. ment/ g to utional rtnership FK,		
These tasks continued developing, producing, and applying enterprise-commonality, interoperability, reuse, and cost savings across the Service				
FY 2013 Plans: DoD M&S management will sustain and advance the efforts implementi	ing its "Strategic Vision for DoD Modeling and Sim	ulation."		
The focus for FY 2013 will be on providing technical expertise and suppenterprise fashion and manage the proliferation of individual M&S tools		n an		
Development Activities:				
Continue executing DoD M&S Enterprise high level tasks endorsed byRapid Data Generation (RDG).	y the M&S SC.			

APPROPRIATION/BUDGET ACTIVITY Q10: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD) B. Accomplishments/Planned Programs (\$ in Millions) -Irregular Warfare (IW) Modeling & Simulation for enhanced analytical capabilities and continued coordination of the development and dissemination of M&S IW tools. -Cyber Operations Research and Network Analysis (CORONA) for enhanced cyber-warfare toolsLYC-AR Implementation & NAE Centric Environment Implications for integration of disparate M&S architecturesIntegrated Threat Systems Modeling & Simulation for improved representation and implementation & National Coordination of the Machine and Correlated Programs (\$ integrated Threat Systems Modeling & Simulation for improved representation and implementation & National Coordination of the Common Data Production Environment (CPPE) by finalizing development of the Integrated Threat Systems M&S care the Common Data Production Environment (CPPE) by finalizing development of the Integrated and correlated geospatial data discovery using the DoD M&S assets supporting enhanced interoperability and reuseContinue development of M&S logistics data, and by beginning developmental glanning activities for M&S Command & Control dataInitiate new M&S Core technical enterprise - activitiesContinue revising Defense Acquisition University (DAU) M&S course content and curriculum to support well-trained M&S workforceContinue good partial pithe MSC-DMS metadata specification for M&S dataContinue supporting the use of EDCSS in DoD exercisesContinue supporting the development of new approaches to using M&S in acquisition. Sustainment Activities: -Continue refining and populating the DoD Enterprise M&S catalog making authoritative tools and data more widely accessible and useableUpgrade and maintain the online DoD M&S Slogisary for standardization of terminology and increased collaboration across the DoD M&S EnterpriseContinue maintaining the Modeling and Simulation C	Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of	Defense	DAT	E: April 2013	
B. Accomplishments/Planned Programs (\$ in Millions) -Irregular Warfare (IW) Modeling & Simulation for enhanced analytical capabilities and continued coordination of the development and dissemination of M&S IW tools. -Cyber Operations Research and Network Analysis (CORONA) for enhanced cyber-warfare toolsLVC-AR Implementation & Net-Centric Environment Implications for integration of disparate M&S architecturesIntegrated Threat Systems Modeling & Simulation for improved representation and implementation of intelligence dataIntegrated Threat Systems Modeling & Simulation for improved representation and implementation of intelligence dataIntegrated Threat Systems Modeling & Simulation for improved representation and implementation of intelligence dataIntegrated Threat Systems Modeling & Simulation For improved representation and implementation of intelligence dataIntegrated Threat Systems Modeling & Simulation For improved representation and implementation of intelligence dataIntegrated Threat Systems Modeling & Simulation For improved representation and implementation of intelligence dataIntegrated Threat Systems Modeling & Simulation For improved representation and implementation of intelligence dataContinue development of the Common Data Production Inc ODP M&S Data requirements, architecture, and standards for M&S DataContinue revising Defense Acquisition University (DAU) M&S course content and curriculum to support well-trained M&S workforceContinue potenting the DoD M&S Enabling Cyber WorkshopsContinue updating the MSC-DMS metadata specification for M&S dataContinue updating the MSC-DMS metadata specification for M&S dataContinue updating the MSC-DMS metadata specification for M&S dataContinue setting compliance to HLA standard for simulations supporting joint warfightingContinue testing compliance to HLA standard for simulations supporting joint warfightingContinue refining and populating the DoD Enterprise M&S catalog making authoritative tools and data mo					
B. Accomplishments/Planned Programs (\$ in Millions) -Irregular Warfare (IW) Modeling & Simulation for enhanced analytical capabilities and continued coordination of the development and dissemination of M&S IW tools. -Cyber Operations Research and Network Analysis (CORONA) for enhanced cyber-warfare tools. -LVC-AR Implementation & Net-Centric Environment Implications for integration of disparate M&S architectures. -Integrated Threat Systems Modeling & Simulation for improved representation and implementation of intelligence data. -DoD Enterprise M&S Catalog for improved visibility into DoD M&S assets supporting enhanced interoperability and reuse. -Continue development of the Common Data Production Environment (CDPE) by finalizing developmental for M&S Data. -Continue development of the Common Data Production Environment (CDPE) by finalizing development of enhanced and correlated geospatial data discovery using the DoD M&S Discovery Metadata Specification standard, by continuing incremental developmental of M&S logistics data, and by beginning developmental planning activities for M&S Command & Control data. -Initiate new M&S Core technical enterprise - activities. -Continue leading the DoD M&S Enabling Cyber Workshops. -Continue updating the MSC-DMS metadata specification for M&S data. -Continue coordinating the use of EDCSS in DoD exercises. -Continue couplanting the development of new approaches to using M&S in acquisition. Sustainment Activities: -Continue testing compliance to HLA standard for simulations supporting joint warfighting. -Continue relining and populating the DoD Enterprise M&S catalog making authoritative tools and data more widely accessible and useable. -Upgrade and maintain the online DoD M&S Glossary for standardization of terminology and increased collaboration across the DoD M&S Enterprise. -Continue was the DoD Lead Standardization Activity (LSA) for managing M&S standards and methodologies to improve the interoperability and reuse of M&S within the DoD, other U.S. gove				-	lation
I-Irregular Warfare (IW) Modeling & Simulation for enhanced analytical capabilities and continued coordination of the development and dissemination of M&S IW tools. -Cyber Operations Research and Network Analysis (CORONA) for enhanced cyber-warfare toolsLVC-ARI Implementation & Net-Centric Environment Implications for integration of disparate M&S architecturesIntegrated Threat Systems Modeling & Simulation for improved representation and implementation of intelligence dataDoD Enterprise M&S Catalog for improved visibility into DoD M&S assets supporting enhanced interoperability and reuseContinue developing Enterprise System Engineering M&S Data requirements, architecture, and standards for M&S DataContinue development of the Common Data Production Environment (CDPE) by finalizing development of enhanced and correlated geospatial data discovery using the DoD M&S Discovery Metadata Specification standard, by continuing incremental developmental of M&S logistics data, and by beginning developmental planning activities for M&S Command & Control dataInitiate new M&S Core technical enterprise - activitiesContinue envising Defense Acquisition University (DAU) M&S course content and curriculum to support well-trained M&S workforceContinue leading the DoD M&S Enabling Cyber WorkshopsContinue updating the MSC-DMS metadata specification for M&S dataContinue updating the use of EDCSS in DoD exercisesContinue updating the development of new approaches to using M&S in acquisition. Sustainment Activities: -Continue refining and populating the DoD Enterprise M&S catalog making authoritative tools and data more widely accessible and useableUpgrade and maintain the online DoD M&S Glossary for standardization of terminology and increased collaboration across the DoD M&S EnterpriseContinue refining and populating the Side Side Side Side Side Side Side Sid	BA 3: Advanced Technology Development (ATD)	Simulation Management Office	Management O	nice	
and dissemination of M&S IW tools. —Cyber Operations Research and Network Analysis (CORONA) for enhanced cyber-warfare tools. —LVC-AR Implementation & Net-Centric Environment Implications for integration of disparate M&S architectures. —Integrated Threat Systems Modeling & Simulation for improved representation and implementation of intelligence data. —DoD Enterprise M&S Catalog for improved visibility into DoD M&S assests supporting enhanced interoperability and reuse. Continue developing Enterprise System Engineering M&S Data requirements, architecture, and standards for M&S Data. Continue development of the Common Data Production Environment (CDPE) by finalizing development of enhanced and correlated geospatial data discovery using the DoD M&S Discovery Metadata Specification standard, by continuing incremental developmental of M&S logistics data, and by beginning developmental planning activities for M&S Command & Control data. Initiate new M&S Core technical enterprise - activities. - Continue revising Defense Acquisition University (DAU) M&S course content and curriculum to support well-trained M&S workforce. - Continue leading the DoD M&S Enabling Cyber Workshops. - Continue updating the MSC-DMS metadata specification for M&S data. - Continue coordinating the use of EDCSs in DoD exercises. - Continue supporting the development of new approaches to using M&S in acquisition. Sustainment Activities: - Continue testing compliance to HLA standard for simulations supporting joint warflighting. - Continue refining and populating the DoD metaprise M&S catalog making authoritative tools and data more widely accessible and useable. - Upgrade and maintain the online DoD M&S Glossary for standardization of terminology and increased collaboration across the DoD M&S Enterprise. - Continue maintaining the Modeling and Simulation Coordination office website. Management/Coordination Activities: - Continue as the DoD Lead Standardization Activity (LSA) for managing M&S standards and methodologies to imp	B. Accomplishments/Planned Programs (\$ in Millions)		FY 201	2 FY 2013	FY 2014
-Cyber Operations Research and Network Analysis (CORONA) for enhanced cyber-warfare toolsLVC-AR Implementation & Net-Centric Environment Implications for integration of disparate M&S architecturesIntegrated Threat Systems Modeling & Simulation for improved representation and implementation of intelligence dataDoD Enterprise M&S Catalog for improved visibility into DoD M&S assets supporting enhanced interoperability and reuseContinue developing Enterprise System Engineering M&S Data requirements, architecture, and standards for M&S DataContinue development of the Common Data Production Environment (CDPE) by finalizing development of enhanced and correlated geospatial data discovery using the DoD M&S Discovery Metadata Specification standard, by continuing incremental developmental of M&S logistics data, and by beginning developmental planning activities for M&S Command & Control dataInitiate new M&S Core technical enterprise - activitiesContinue revising Defense Acquisition University (DAU) M&S course content and curriculum to support well-trained M&S workforceContinue leading the DoD M&S Enabling Cyber WorkshopsContinue updating the MSC-DMS metadata specification for M&S dataContinue updating the MSC-DMS metadata specification for M&S dataContinue supporting the development of new approaches to using M&S in acquisition. Sustainment Activities: -Continue testing compliance to HLA standards for simulations supporting joint warfightingContinue refining and populating the DoD Enterprise M&S catalog making authoritative tools and data more widely accessible and useableContinue refining and populating the DoD Enterprise M&S catalog making authoritative tools and data more widely accessible and useableContinue maintaining the Modeling and Simulation Coordination office website. Management/Coordination Activities: -Continue as the DoD Lead Standardization Activity (LSA) for managing M&S standards and methodologies to improve the interoperability and reuse of M&S within the Do		ilities and continued coordination of the develop	ment		
-LVC-ARI Implementation & Net-Centric Environment Implications for integration of disparate M&S architecturesIntegrated Threat Systems Modeling & Simulation for improved representation and implementation of intelligence dataDoD Enterprise M&S Catalog for improved visibility into DoD M&S assets supporting enhanced interoperability and reuseContinue developing Enterprise System Engineering M&S Data requirements, architecture, and standards for M&S DataContinue development of the Common Data Production Environment (CDPE) by finalizing development of enhanced and correlated geospatial data discovery using the DoD M&S Discovery Metadata Specification standard, by continuing incremental developmental of M&S logistics data, and by beginning developmental planning activities for M&S Command & Control dataInitiate new M&S Core technical enterprise - activitiesContinue revising Defense Acquisition University (DAU) M&S course content and curriculum to support well-trained M&S workforceContinue leading the DoD M&S Enabling Cyber WorkshopsContinue leading the DoD M&S Enabling Cyber WorkshopsContinue coordinating the use of EDCSS in DoD exercisesContinue supporting the development of new approaches to using M&S in acquisition. Sustainment Activities: -Continue managing existing M&S standardsContinue testing compliance to HLA standard for simulations supporting joint warfightingContinue refining and populating the DoD Enterprise M&S catalog making authoritative tools and data more widely accessible and useableContinue refining and populating the DoD Enterprise M&S catalog making authoritative tools and data more widely accessible and useableContinue maintainin the online DoD M&S Glossary for standardization of terminology and increased collaboration across the DoD M&S EnterpriseContinue maintaining the Modeling and Simulation Coordination office website. Management/Coordination Activities: -Continue serving as the DoD meterprise M&S within the DoD, other U.S. government agencies		La Lacardo de Carlo			
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interoperability and reuse of M&S within the DoD, other U.S. government agencies, and international M&S communities. • Continue serving as the DoD modeling and simulation focal point for M&S activities and for collaboration within the DoD.					
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Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secre	etary Of Defense		DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJ	ECT		
0400: Research, Development, Test & Evaluation, Defense-Wide PE 0603832D8Z: DoD Modeling and P4			DoD Modelii	ng and Simul	ation
BA 3: Advanced Technology Development (ATD)	Simulation Management Office	Mana	gement Offic	9	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
Continue advising and assisting the USD(AT&L) on M&S.					
 Continue working groups for providing technical advice and assistant 					
Work Implementation Plans in coordination with stakeholders for M8		the			
Strategic Vision for DoD Modeling and Simulation, and initiate actions					
Continue managing the development of a core technology program the large terms are set the DaD M80 Fatamerica.	to maintain and sustain M&S tools, data, and service	es vital to			
the long term success of the DoD M&S Enterprise. • Transition capabilities formerly assigned to DTIC's Modeling and Sir	mulation Information Analysis Contar (MSIAC)				
Provide functional oversight and technical direction to M&S portion of the second section in the section in the second section in the section section in the section in the second section in the section					
Information Analysis Center (CSIAC).	of Diffe s Cyber Security and Information Systems				
Continue coordinating quarterly program management reviews for tagether.	asks sponsored by this PE.				
Continue coordination with the Simulation Interoperability Standards		ent/			
voting of M&S standards supporting interoperability.	, , ,				
• Continue serving as the DoD modeling and simulation focal point for	r M&S activities and collaboration with non-DoD, fede	eral			
agencies including the Department of Homeland Security (DHS), the		stice			
(DOJ), and the National Aeronautics and Space Administration (NASA					
Continue serving as the DoD modeling and simulation focal point for		agencies			
including NATO, Partnership for Peace (PfP) nations, The Technical (
Continue to engage Modeling & Simulation Community of Interest (National Community of Int	M&S COI) activities for integrating M&S Enterprise Di	ata			
requirements into the DoD Wide Net Centric Data Strategy. • Continue managing the Data Management Working Group (DMWG)	activities to address MSS data technical challenges				
	activities to address M&S data technical challenges	٠-			
FY 2014 Plans:		_			
M&S management will sustain and advance the efforts implementing	its "Strategic Vision for DoD Modeling and Simulation	n."			
The focus for FY 2014 will be on ensuring technical expertise and sur	poort capability to enhance the effectiveness of our N	1&S			
expenditures through smart development of new common capabilities					
of individual M&S tools through encouraging reuse and interoperabilit	, , ,				
Development Activities:					
 Begin implementation of M&S SC Priority Objectives (FY 2014–2018) 	9) actions based on the Stratonia Vision for DaD Mas	deling			
	b) actions based on the Strategic vision for DoD Mod	_			
and Simulation.	b) actions based on the Strategic vision for DoD Mod				

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secreta	ary Of Defense		DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJEC	T		
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0603832D8Z: DoD Modeling and			ng and Simul	ation
BA 3: Advanced Technology Development (ATD)	Simulation Management Office	Manager	ment Offic	е	
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2012	FY 2013	FY 2014
 Continue development of the Common Data Production Environment (correlated geospatial data discovery using the DoD M&S Discovery Met developmental of M&S logistics data, and by beginning developmental performance of Continue revising M&S course content and curriculum to support well-to Continue leading the DoD M&S Enabling Cyber Workshops. Continue updating the MSC-DMS metadata specification for M&S data Continue coordinating the use of EDCSS in DoD exercises. Continue supporting the development of new approaches to using M&S 	adata Specification standard, by continuing incremental planning activities for M&S Command & Control data trained M&S workforce.				
Sustainment Activities:					
Continue managing existing M&S standards.					
Continue testing compliance to HLA standard for simulations supporting					
Continue refining and populating the DoD Enterprise M&S catalog makes.	king authoritative tools and data more widely accessi	ble			
and useable.	into months and NAO Constitution				
 Maintain and synchronize the MSMO strategic calendar with DoD and Maintain the online DoD M&S Glossary for standardization of terminolo Enterprise. 		3			
Continue maintaining the Modeling and Simulation Coordination office	website.				
Management/Coordination Activities:					
 Continue as the DoD Lead Standardization Activity (LSA) for managing interoperability and reuse of M&S within the DoD, other U.S. governmer Continue serving as the DoD modeling and simulation focal point for M Continue advising and assisting the USD AT&L on M&S. Continue coordinating working groups for providing technical advice ar Continue managing the development of a technical core program to make long term success of the DoD M&S Enterprise. 	nt agencies, and international M&S communities. 1&S activities and for collaboration within the DoD. and assistance to the DoD M&S Senior Steering Communities.				
 Provide M&S functional oversight and M&S technical direction to DTIC Analysis Center (CSIAC). Continue coordinating quarterly program management reviews for task 		on			
Continue coordinating quarterly program management reviews for task Continue coordination with the Simulation Interoperability Standards O voting of M&S standards supporting interoperability.		t/			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretar	DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0603832D8Z: DoD Modeling and	P476: DoD Modeling and Simulation
BA 3: Advanced Technology Development (ATD)	Simulation Management Office	Management Office
	•	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
• Continue collaboration with non-DoD, federal agencies including the Department of Homeland Security (DHS), the Department			
of Energy (DOE), the Department of Justice (DOJ), and the National Aeronautics and Space Administration (NASA).			
• Continue serving as the DoD modeling and simulation focal point for M&S activities and collaboration with International agencies			
including NATO, Partnership for Peace (PfP) nations, The Technical Cooperation Program (TTCP), and other Allies.			
Continue to coordinate the Modeling & Simulation Community of Interest (M&S COI) activities.			
Continue managing the Data Management Working Group (DMWG) activities to address M&S data technical challenges.			
Accomplishments/Planned Programs Subtotals	29.860	36.433	30.370

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance in this program is monitored in the following ways:

- 1. Number of instances where M&S standards, technical best practices, or tools have been adopted or employed. (Goal 1)
- 2. Number of M&S standards registered or updated in the authoritative DoD and international standards repositories, to include the Information Technology Standards and Defense Standardization Programs. (Goal 1)
- 3. Number of collaborative technology events held or agreements made within DoD, with other U.S. Government Departments and Agencies, coalition partners including NATO and Partnership for Peace (PfP) nations, The Technical Cooperation Program (TTCP), international Allies, industry and academia. (Goal 2)
- 4. Number of M&S policies or plans issued, re-issued, revised, or deleted. (Goal 2)
- 5. Number of Community/Service business plans or strategies issued, re-issued, revised, or deleted. (Goal 2)
- 6. Number of simulation federates and infrastructure capabilities which participate in DoD standards verification and compliance activities. (Goal 2)
- 7. Number of M&S technology gaps identified in the enterprise planning process and addressed by PE funding. (Goal 3)
- 8. Number of M&S resources (tools, data, and services) made visible or updated in the DoD M&S Enterprise Catalog for reuse and the completeness of each record according to DoD discovery metadata standards. (Goal 4)
- 9. Number of M&S repositories linked to the DoD M&S Enterprise Catalog. (Goal 4)
- 10. Number of users that register for and employ common tools promoted by the M&S Core enterprise capabilities program. (Goal 4)
- 11. Number of users accessing and completing DoD sponsored training venues for educating the M&S workforce. (Goal 5)

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense					DATE: April 2013							
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 3: Advanced Technology Dev	est & Evalua		nse-Wide					PROJECT P477: Effects Chain Analyses Cell				
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
P477: Effects Chain Analyses	-	0.000	11.000	11.000	-	11.000	11.000	11.000	11.000	11.000	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

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

The Anti-access/Area-denial (A2/AD) threat requires detailed modeling and simulation based analysis to support weapon system and operational capability development. This effort will focus on generating operational scenario and system analyses, identifying specific analytic limitations, developing the technical analysis plan, and implementing the plan. These analyses will be acquisition-centered net analyses of the end-to-end blue (US and Allies) capabilities compared to specific red (potential adversary) capabilities focused on identifying the most promising technologies for application to A2/AD problems. The analyses will address acquisition specific questions such as: can a system be accelerated and/or can a group of capabilities be combined in different ways to improve the overall effectiveness of US systems? This office is expected to work closely with the Joint Staff and the Military Departments and in particular with the Air Sea Battle Office.

b. Accomplishments/r lanned r rograms (\$ in willions)	F1 2012	F1 2013	F1 2014
Title: Effects Chain Analyses Cell	0.000	11.000	11.000
Description: The A2/AD effects chain analysis effort is a new effort to develop and strengthen the specific analysis data, tools, and actual technical analyses supporting decisions on weapon system and operational capability development. The analyses will initially focus on PACOM and CENTCOM Areas of responsibilities. Projects undertaken will be approved by the Under Secretary of Defense (AT&L).			
FY 2013 Plans: - Initiate alternative concepts focused on near-term systems employment in coordination with PACOM, develop analytical approaches to assess capability improvements Identify promising concepts for detailed analysis of effects Analyze sensor options and cost effective architectures for land based defense.			
FY 2014 Plans: - Continue concept analysis of near-term systems in alternate employment scenarios Perform detailed performance and effects analysis of promising concepts.			
Accomplishments/Planned Programs Subtotals	0.000	11.000	11.000

EV 2012

EV 2013

EV 2014

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

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of D	DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603832D8Z: DoD Modeling and Simulation Management Office	PROJECT P477: Effe	cts Chain Analyses Cell
C. Other Program Funding Summary (\$ in Millions) N/A			

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A