

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207601F: <i>USAF Modeling and Simulation</i>
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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	-	22.113	15.501	10.448	-	10.448	19.601	18.851	17.065	17.372	Continuing	Continuing
674567: <i>M&S Foundations</i>	-	6.197	6.590	1.202	-	1.202	9.813	8.912	6.833	6.956	Continuing	Continuing
674991: <i>Accelerated Acquisition</i>	-	5.079	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	5.079
675004: <i>New and Emerging Capabilities</i>	-	1.310	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.310
675135: <i>Warfighter Readiness</i>	-	9.527	8.911	9.246	-	9.246	9.788	9.939	10.232	10.416	Continuing	Continuing

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

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

A. Mission Description and Budget Item Justification

United States Air Force (USAF) Modeling & Simulation (M&S) Program Element (PE) is broken into four thrust areas: Modeling and Simulation Foundations, Accelerated Acquisition, New and Emerging Warfighting Capabilities, and Warfighter Readiness. It directly supports Air Force, Joint, Coalition composite training and rehearsal, concept development, and acquisition and testing through model and simulation development as well as the integration of these across and within Live, Virtual, and Constructive (LVC) environments. This program focuses on support of Department of Defense (DoD) Training Transformation (T2), acquisition excellence initiatives, and foundational capabilities needed for interoperability, accessibility, reuse, and scalability. It allows the authoritative portrayal of new and emerging Air Force capabilities within Army, Navy, Marines, OSD, interagency, and coalition LVC environments; as well as reciprocating their capabilities within our Air Force LVC environments.

LVC environments today are used as the most cost effective means to meet mission needs, the most practical means, and sometimes the only way. In support of the DoD T2 initiative, USAF M&S program thrust areas develop and modernize models and simulations that are the constructive backbone of Air Force and joint training and rehearsal. Once these models and simulations are developed, they are integrated across training LVC environments for use by Major and Combatant Commands. This development and integration is imperative to ensure that air, space, and cyberspace training and mission rehearsal activities are supported with realistic, interoperable, and readily available tools, data, and services. These, in turn, enable joint, coalition, and interagency training required to prepare forces for combat by generating the air and space picture for the Air and Space Operations Center (AOC), Joint Force Air Component Commander (JFACC), and Joint Force Commander in combat exercises; training over 30,000 personnel per year in exercises (e.g., Ulchi Freedom Guardian, Red & Blue Flags, Unified Endeavor, etc). These programs also provide the current foundational environment that enables warfighters to interact with high-fidelity tactical cockpit simulators, like 5th Generation (5th Gen) and beyond, which replicate high demand/low density platforms that are often unavailable for training due to real-world operations; while simultaneously linking it to warfighters using their current command and control systems 1,000 miles away and the constructive simulations being run from key operational wargaming and simulation centers worldwide.

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207601F: <i>USAF Modeling and Simulation</i>
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USAF M&S is integral to inter-agency Homeland Defense (HLD) exercises chartered to train combat units tasked to protect the Homeland, including the National Capital Region (exercise Amalgam Arrow); generates equipment and manpower efficiencies by using simulations which reduce fuel consumption, aircraft wear and tear, and manpower costs. In support of the DoD drive to improve the effectiveness and efficiency of its enterprise-wide acquisition business processes, the USAF M&S Program Element develops and supports enhancements to models, simulations, tools, and the LVC infrastructure to provide for system-of-systems M&S capabilities across the lifecycle, reduce developmental costs, and minimize risks. These capabilities support the acquisition process from concept development through test and evaluation. Activities also include studies and analysis to support both current program planning and execution and future program planning.

This program is in Budget Activity 7, Operational System Development, this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>
Previous President's Budget	22.990	15.501	15.868	-	15.868
Current President's Budget	22.113	15.501	10.448	-	10.448
Total Adjustments	-0.877	0.000	-5.420	-	-5.420
• Congressional General Reductions	-	0.000			
• Congressional Directed Reductions	-	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	-	0.000			
• Congressional Directed Transfers	-	0.000			
• Reprogrammings	-0.191	0.000			
• SBIR/STTR Transfer	-0.686	0.000			
• Other Adjustments	0.000	0.000	-5.420	-	-5.420

Change Summary Explanation

In FY 2014, project 674567 funding reprogrammed to meet higher Air Force priority needs.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0207601F: USAF Modeling and Simulation				PROJECT 674567: M&S Foundations			
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
674567: M&S Foundations	-	6.197	6.590	1.202	-	1.202	9.813	8.912	6.833	6.956	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

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

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

A. Mission Description and Budget Item Justification

Modeling and Simulation Foundations (MSF) focuses on integrating foundational capabilities needed to improve the usefulness, productivity, scalability and efficiency of Modeling and Simulation (M&S) capabilities derived from the Warfighter Readiness (WR) thrust, the Accelerated Acquisitions (AA) thrust, and the New and Emerging Warfighting Capabilities (NEWC) thrust. MSF is the: standards, policies, procedures, architectures, and tools that enable the rapid and efficient composition of distributed environments to support both the warfighter needs and the US Air Force's (USAF) functional communities of: acquisition, training, planning, analysis, testing, education, and experimentation requirements. The efforts supporting the MSF thrust include both concept exploration and development.

Activities also include studies and analysis to support both current program planning and execution and future program planning. This also funds the USAF in its capacity as the Department of Defense (DoD) Modeling and Simulation Executive Agent (MSEA) for the Air and Space Natural Environment. MSF's objective is to establish a USAF Live-Virtual-Constructive-Integrated Architecture (LVC-IA) that provides a persistent network of constructive computer simulations, man-in-the-loop virtual simulators, and live forces/resources in an interoperable environment that supports USAF organizations and the functional communities. This objective will be achieved by MSF providing tools, standards and interfaces to be used by model developers and users to ensure efficiencies and model reuse.

MSF provides the capability to rapidly and efficiently create realistic and accurate synthetic operational battlespaces to support the full spectrum of activities associated with concept development to acquisition and testing through composite training and mission rehearsal. This is done by providing appropriate authoritative data and component representations. With the capability generated via MSF, users will readily access available repositories of reusable, validated, and integrated synthetic components. Synthetic components include representations of operational battlespace entities (such as friendly and enemy assets) and representations of the natural environment that include the terrain, atmospheric and space weather effects; and energy and signal propagation effects. The rapid composition is based on a durable common architecture framework, policies, and common standards. MSF capability also supports: efficient, cost-effective verification, validation, and accreditation activity across all of the M&S functional and organizational communities.

As the DoD Air and Space Natural Environment Modeling and Simulation Executive Agent (ASNE MSEA), the Air Force coordinates all aspects of DoD M&S related to representations of the air and space natural environment. The tools developed through this include the Environmental Scenario Generator, the Environmental Data Cube Support System, and the Space Weather Analysis. ASNE MSEA collaborates with other national partners to provide the USAF and DoD access to authoritative natural environment scenarios necessary for robust "What-if" mission planning and rehearsal and for realistic training, analysis, and acquisition. ASNE MSEA leads the development and execution of the DoD Integrated Natural Environment Authoritative Representation Process (INEARP) Concept of Operations.

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The Information Operations Suite (IOS) provides the authoritative representation of Air Force information operations. IOS is comprised of models that support training and mission rehearsal for the Air Force, Joint Task Force commanders, and COCOM battle staffs during Joint and Service exercises and experimentations. Other capabilities, such as the Air Force Synthetic Environment for Reconnaissance and Surveillance (AFSERS) provide for Intelligence, Surveillance, and Reconnaissance (ISR) training and exercise support by using virtual simulators and constructive models for command and staff level training. These capabilities provide commanders, staffs, and operators with common training systems for the employment, tasking, exploitation and dissemination of imagery.			
This program is in Budget Activity 7, Operational System Development, this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.			
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Air Constructive Environment - Information Operations Suite (ACE-IOS)	4.609	5.047	1.202
Description: Information Operations Suite (IOS) provides the authoritative representation of Air Force information operations. IOS is comprised of models that support training and mission rehearsal for the Air Force, Joint Task Force commanders, and COCOM battle staffs during Joint and Service exercises and experimentations.			
FY 2012 Accomplishments: Provided the authoritative representation of Air Force information operations. IOS is comprised of models that support training and mission rehearsal for the Air Force, Joint Task Force commanders, and COCOM battle staffs during Joint and Service exercises and experimentations.			
FY 2013 Plans: Provides the authoritative representation of Air Force information operations. IOS is comprised of models that support training and mission rehearsal for the Air Force, Joint Task Force commanders, and COCOM battle staffs during Joint and Service exercises and experimentations. Specific accomplishments will be the development of these new FY13 capabilities: ACE-IOS Terrain Modeling, Process Abstract Intent and produce communication traffic/intelligence, IFF/SIF Mode 5 and S, New Joint Intelligence Messaging Management System (JIMMS) database application, model for Air Warfare Simulation (AWSIM) Airbase Communication Facility, and develop/replace the National Wargaming Simulation (NWARS) interface for the Joint Live Virtual Constructive (JLVC) Federation.			
FY 2014 Plans: Will continue to provide the authoritative representation of Air Force information operations at a reduced level of effort. IOS is comprised of models that support training and mission rehearsal for the Air Force, Joint Task Force commanders, and COCOM battle staffs during joint and service exercises and experimentations. Will continue to support the development of: ACE-IOS Terrain Modeling, Process Abstract Intent and produce communication traffic/intelligence, IFF/SIF Mode 5 and S, Joint Intelligence Messaging Management System (JIMMS) database application, model for Air Warfare Simulation (AWSIM) Airbase			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0207601F: <i>USAF Modeling and Simulation</i>	PROJECT 674567: <i>M&S Foundations</i>
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
Communication Facility, and the National Wargaming Simulation (NWARS) interface for the Joint Live Virtual Constructive (JLVC) Federation.			
Title: Live, Virtual, and Constructive - Integrating Architecture (LVC-IA) Description: Provide M&S Foundations (MSF) support to: Live, Virtual, and Constructive(LVC) - Integrating Architecture (IA), concept exploration, model development, and model transition effort. FY 2012 Accomplishments: Provided MSF support to: Live, Virtual, and Constructive (LVC) - Integrating Architecture (IA), concept exploration, model development, and model transition effort. FY 2013 Plans: Provides MSF support to: Live, Virtual, and Constructive (LVC) - Integrating Architecture (IA), concept exploration, model development, and model transition effort.		0.593	0.548
Title: Air & Space Natural Environment (ASNE) Description: Provide DoD M&S community with tools to search the ASNE scenarios; measure effects on weapon systems and subsystems and distribute tailored reusable databases and products. FY 2012 Accomplishments: Developed the ASNE capabilities. Continued the implementation and RDT&E of a standardized integrated architecture for the live-virtual-constructive enterprise. FY 2013 Plans: Develops the ASNE capabilities. Continues the implementation and RDT&E of a standardized integrated architecture for the live-virtual-constructive enterprise.		0.995	0.995
Accomplishments/Planned Programs Subtotals		6.197	1.202
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
Air Force Life Cycle Management Center (AFLCMC) at Hanscom AFB, MA manages the acquisition and incremental development process for all M&S activities. All major contracts will be awarded after full and open competition.			

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E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0207601F: USAF Modeling and Simulation				PROJECT 674567: M&S Foundations					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Air Constructive Environment - Information Operations Suite (ACE-IOS)	C/CPFF	90th IOS:Lackland AFB, TX	-	4.609	Oct 2011	5.047	Oct 2012	1.202	Oct 2013	-		1.202	Continuing	Continuing	TBD
Live, Virtual & Constructive-Integrating Architecture (LVC-IA)/ Concept Refinement, Technology, services, and tools support	C/CPFF	AF Agency for Modeling & Simulation:Orlando, FL	-	0.593	Oct 2011	0.548	Oct 2012	0.000		-		0.000	Continuing	Continuing	TBD
Air & Space Natural Environment (ASNE)/ Services, Tools, and Environmental support	C/CPFF	AF/A3O-W:Arlington, VA	-	0.995	Oct 2011	0.995	Oct 2012	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	6.197		6.590		1.202		0.000		1.202			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>						R-1 ITEM NOMENCLATURE PE 0207601F: <i>USAF Modeling and Simulation</i>				PROJECT 674567: <i>M&S Foundations</i>				

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	6.197		6.590		1.202		0.000		1.202			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0207601F: USAF Modeling and Simulation

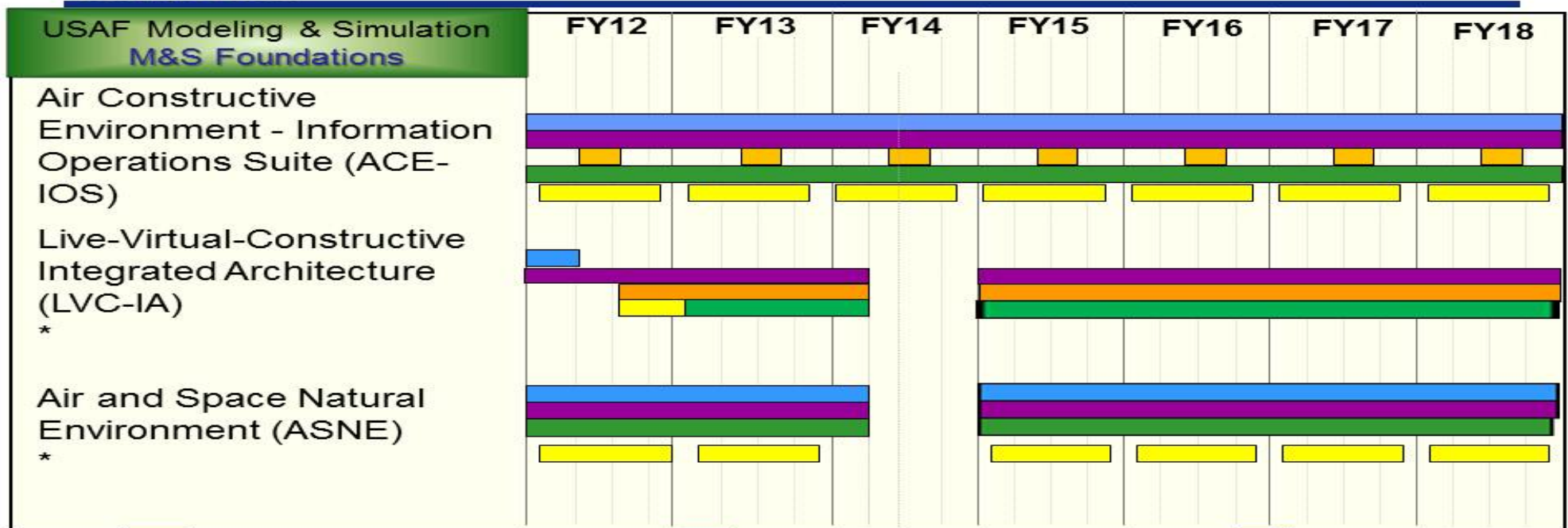
PROJECT

674567: M&S Foundations



U.S. AIR FORCE

USAF Modeling & Simulation M&S Foundations (674567) Schedule



Concept activities
 Production / fielding

Design / development
 Operations / sustainment

Integration / test
 Key events

* - LVC-IA and ASNE FY 2014 efforts funding reprogrammed to meet higher Air Force priority needs and efforts resume in FY 2015

Integrity - Service - Excellence

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: *Research, Development, Test & Evaluation, Air Force*
BA 7: *Operational Systems Development*

R-1 ITEM NOMENCLATURE

PE 0207601F: *USAF Modeling and Simulation*

PROJECT

674567: *M&S Foundations*

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Air Constructive Environment - Information Operations Suite (ACE-IOS)	1	2012	4	2018
Live-Virtual-Constructive Integrated Architecture (LVC-IA)	1	2012	4	2018
Air and Space Natural Environment (ASNE)	1	2012	4	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0207601F: USAF Modeling and Simulation				PROJECT 674991: Accelerated Acquisition			
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
674991: Accelerated Acquisition	-	5.079	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	5.079
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY 2012, Project 674991, Accelerated Acquisition, was terminated in order to meet higher Air Force priorities.												
A. Mission Description and Budget Item Justification												
In Fiscal Year 2012, Accelerated Acquisition (AA) focused on fostering M&S tools, data, and infrastructure that enabled high confidence acquisition of capabilities that supported the joint warfighter. This included Live-Virtual-Constructive (LVC) infrastructure, tools and processes supporting LVC events, and models, tools, data, simulations/stimulation that supported requirements definition, systems engineering and test activities. Activities also included M&S support for studies and analysis that supported both current program planning and execution and future program planning.												
These efforts enabled more efficient delivery of effective capabilities to the warfighter while reducing the time and resources required for design, development, test and evaluation, maintainability and sustainment. A key objective was to improve interoperability of weapon systems and platforms through continuing, rigorous interoperability evaluation in a representative Joint Mission Environment. Additionally, AA activities sought to reduce risk associated with acquisition programs by influencing models, simulations, tools, data and infrastructure linking combat system engineering sites to facilitate concept exploration, development and assessment of systems in a net-centric mission context. This provided the capability to improve both Service and Joint system performance in a system-of-systems environment. Connectivity established by the infrastructure built upon existing Service and Joint combat system engineering and test sites, such as Command, Control, Communications, Computer, and Intelligence (C4I) hardware in the loop and computer-program-in-the-loop engineering sites (including design activities, software support activities, test & evaluation facilities and training commands).												
Development included concept of operations, business rules, and procedures that enabled acquisition managers to effectively use LVC capabilities. These efforts enabled accurately represented C4I networks for capability requirement definition, development, and testing activities to evaluate those systems for interoperability and integration into a joint environment. This addressed interoperability issues by providing a means for discovering issues early on.												
This program was in Budget Activity 7, Operational System Development, this budget activity included development efforts to upgrade systems that have been fielded or have received approval for full rate production.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Architecture & Links									0.174	0.000	0.000	

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207601F: <i>USAF Modeling and Simulation</i>	PROJECT 674991: <i>Accelerated Acquisition</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
Description: Continue communications architectures and network support			
FY 2012 Accomplishments: Continued to support architecture and link development and maturation of collaborative processes and capabilities of systems-of-systems assessments (e.g. airborne network assessments, air-ground layer interaction, etc.).			
Title: Event Coordination Description: Continue to support LVC events to assist in Air Force requirements definition, development and T&E activities FY 2012 Accomplishments: Continued to support event coordination development and maturation of collaborative processes and capabilities of systems-of-systems assessments (e.g. airborne network assessments, air-ground layer interaction, etc.).		0.253	0.000
Title: M&S Tools Description: Develop, enhance and verify models, tools, data, simulations/stimulation environments for systems engineering and test activities FY 2012 Accomplishments: Continued to support M&S tool development and maturation of collaborative processes and capabilities of support systems-of-systems assessments (e.g. airborne network assessments, air-ground layer interaction, etc.).		3.814	0.000
Title: Joint Service Integration Description: Continue to support joint service integration & test FY 2012 Accomplishments: Continued to support Joint Service Integration development and maturation of collaborative processes and capabilities of systems-of-systems assessments (e.g. airborne network assessments, air-ground layer interaction, etc.).		0.838	0.000
Accomplishments/Planned Programs Subtotals		5.079	0.000
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			

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D. Acquisition Strategy Air Force Life Cycle Management Center (AFLCMC) at Hanscom AFB, MA manages the acquisition and incremental development process for all M&S activities. All major contracts will be awarded after full and open competition.		
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0207601F: USAF Modeling and Simulation				PROJECT 674991: Accelerated Acquisition					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Architecture & Links	Various	Various:Various,	-	0.174	Nov 2011	0.000		0.000		-		0.000	0.000	0.174	TBD
Event Coordination	Various	Various:Various,	-	0.253	Nov 2011	0.000		0.000		-		0.000	0.000	0.253	TBD
M&S Tools	Various	Various:Various,	-	3.814	Oct 2011	0.000		0.000		-		0.000	0.000	3.814	TBD
Joint Service Integration	Various	Various:Various,	-	0.838	Oct 2011	0.000		0.000		-		0.000	0.000	0.838	TBD
Subtotal			0.000	5.079		0.000		0.000		0.000		0.000	0.000	5.079	
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	5.079		0.000		0.000		0.000		0.000	0.000	5.079	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0207601F: USAF Modeling and Simulation

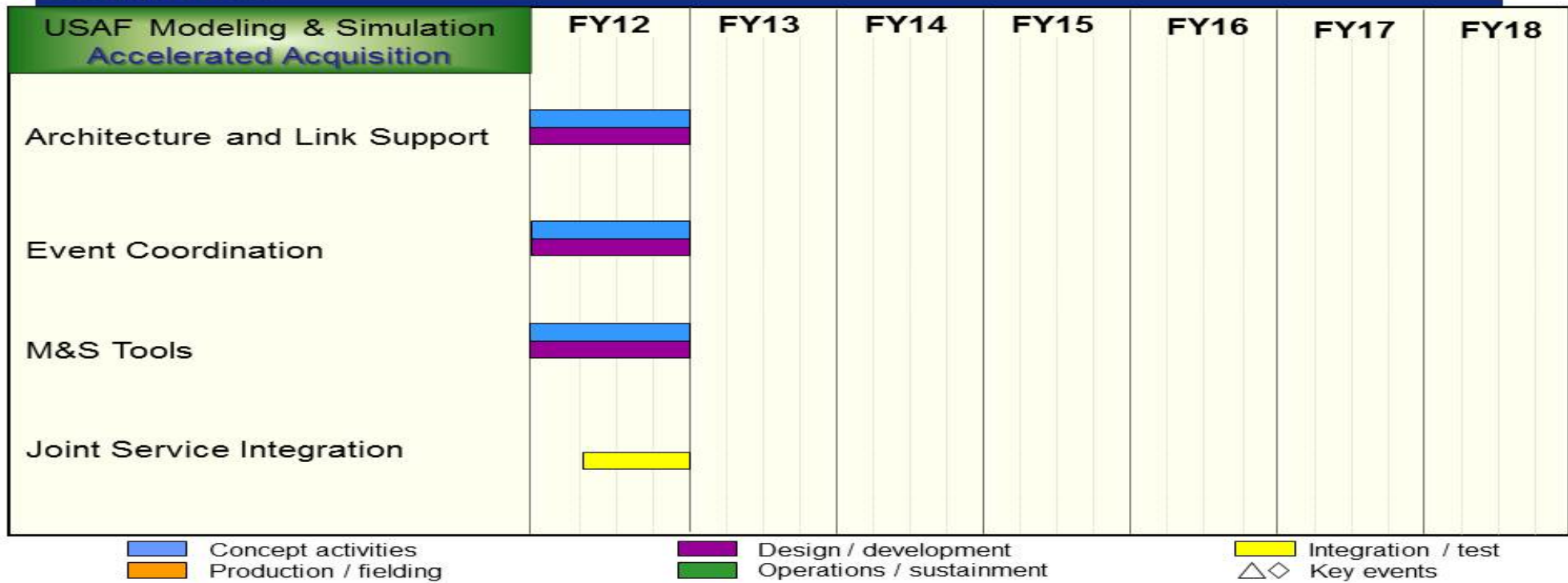
PROJECT

674991: Accelerated Acquisition



USAF Modeling & Simulation Accelerated Acquisition (674991) Schedule

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207601F: <i>USAF Modeling and Simulation</i>	PROJECT 674991: <i>Accelerated Acquisition</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Architecture & Link Support	1	2012	4	2012
Event Coordination	1	2012	4	2012
M&S Tools	1	2012	4	2012
Joint Service Integration	2	2012	4	2012

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0207601F: USAF Modeling and Simulation				PROJECT 675004: New and Emerging Capabilities			
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
675004: New and Emerging Capabilities	-	1.310	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.310
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY 2012, Project 675004, New and Emerging Capabilities, was completed meeting short-term special Modeling & Simulation (M&S) rapid prototype and fielding needs.												
A. Mission Description and Budget Item Justification												
The New and Emerging Capabilities (NEWC) are a collection of short-term, special Modeling & Simulation (M&S) programs requiring rapid prototype and fielding. These capabilities meet air, space, or cyberspace gaps identified by Air Force Major Commands, U.S. Combatant Commands, or agencies; address Air Force core competencies; ensure Air Force's force structure or power projections are appropriately represented in DoD, joint, and service training, rehearsal, and assessments; ensure interoperability of simulations among weapon system programs; and field initial Air Force capabilities in support of Department of Defense priorities. Activities also include studies and analysis to support both current program planning and execution and future program planning.												
This program is in Budget Activity 7, Operational System Development, this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Joint Close Air Support (JCAS) Mobile Synthetic Training System									1.310	0.000	0.000	
Description: The JCAS Mobile Synthetic Training System provides persistent, mobile, on-demand battlefield airman training.												
FY 2012 Accomplishments: Provided persistent, mobile, on-demand battlefield airman training, specifically Joint Terminal Attack Controller (JTAC) training, using synthetic Predator/Reaper imagery and/or fighter/bomber advanced targeting pod feeds. Training was accomplished on designated Air Force and joint ranges and (e.g. Nellis Range Complex, Fort Irwin National Training Center, and Fort Polk Joint Readiness Training Center) and designated military operating areas using live, virtual and constructive integrated M&S.												
Accomplishments/Planned Programs Subtotals									1.310	0.000	0.000	

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207601F: <i>USAF Modeling and Simulation</i>	PROJECT 675004: <i>New and Emerging Capabilities</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy Air Force Life Cycle Management Center (AFLCMC) at Hanscom AFB, MA manages the acquisition and incremental development process for all M&S activities. All major contracts will be awarded after full and open competition.		
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force													DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development							R-1 ITEM NOMENCLATURE PE 0207601F: USAF Modeling and Simulation					PROJECT 675004: New and Emerging Capabilities			

Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Joint Close Air Support (JCAS) Mobile Synthetic Training System	Various	Various:Various,	-	1.310	Oct 2011	0.000		0.000		-		0.000	0.000	1.310	TBD
Subtotal			0.000	1.310		0.000		0.000		0.000		0.000	0.000	1.310	

Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	1.310		0.000		0.000		0.000		0.000	0.000	1.310	

Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

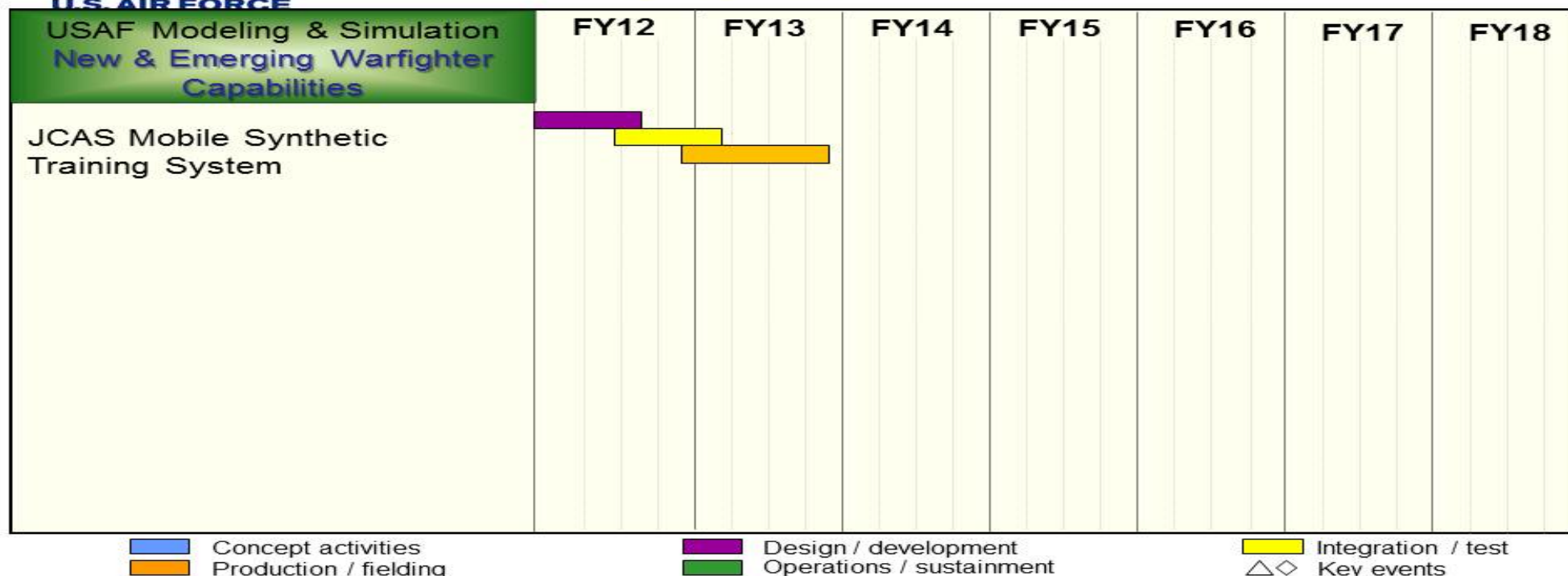
PE 0207601F: USAF Modeling and Simulation

PROJECT

675004: New and Emerging Capabilities



USAF Modeling & Simulation New & Emerging Capabilities (675004) Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0207601F: USAF Modeling and Simulation	PROJECT 675004: New and Emerging Capabilities

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
JCAS Mobile Synthetic Training System	1	2012	4	2013

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0207601F: USAF Modeling and Simulation				PROJECT 675135: Warfighter Readiness			
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
675135: Warfighter Readiness	-	9.527	8.911	9.246	-	9.246	9.788	9.939	10.232	10.416	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
^{##} The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
Modeling and Simulation support to our Warfighter's Readiness is a United States Air Force (USAF) corporate imperative to ensure air, space, cyberspace training, and mission rehearsal activities are supported with realistic, interoperable, and readily available, tools, data, services and environments. Warfighter readiness supports Department of Defense (DoD) Training Transformation (T2) and Joint National Training Capability (JNTC) along with the USAF priorities and core functions. Activities also include studies and analysis to support both current program planning, execution, and future program planning.												
It includes several complimentary programs, initiatives and areas for investment: Warfighter and Joint Training Integration supports the Chief of Staff of the Air Force (CSAF) directed Live-Virtual-Constructive (LVC) integration efforts and is a critical piece to the USAF's implementation of the Strategic Plan for Transforming DoD Training. The goal of LVC training and mission rehearsal is to prepare our warfighters for the full range of military operations and maintain the combat readiness levels required by the Combatant Commands (COCOMs). This can only be accomplished by training and rehearsing in realistic operational environments. These environments include live training ranges and virtual simulators enhanced with constructive entities. Specific training and mission rehearsal events can include some or all of these simultaneously; making the ability to integrate LVC capabilities a necessity.												
The Air, Space, and Cyberspace Constructive Environment (ASCCE) is the USAF's authoritative federation of constructive training models and tools realistically representing the tactical and operational capabilities the USAF brings to the joint fight. It includes the Air Force Modeling and Simulation Training Toolkit (AFMSTT), which provides the authoritative representation of AF and joint theater-level air and space power and is used to train Air and Space Operations Center (AOC) personnel and Combat Commanders (COCOM) battle staffs. The primary model in the AFMSTT is the Air Warfare Simulation (AWSIM). The Joint Training Transformation Initiative (JTTI) is a CSAF and Chief of Staff of the Army initiative to improve air, space, and cyberspace power fidelity to the Battle Command Training Program (BCTP), a US Army training event for senior commanders and their staffs, as well as improving ground component fidelity to AF operational-level exercises.												
This program is in Budget Activity 7, Operational System Development, these budget activities include development efforts to upgrade systems currently fielded or has approval for full rate production and anticipate production funding in the current or subsequent fiscal year.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Air, Space, and Cyberspace Constructive Environment (ASCCE)									7.923	7.091	7.409	
Description: Air Force Modeling & Simulation Training Toolkit (AFMSTT)/Air Warfare Simulation (AWSIM)												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207601F: <i>USAF Modeling and Simulation</i>	PROJECT 675135: <i>Warfighter Readiness</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
<i>FY 2012 Accomplishments:</i> Maintained, improved, certified and accredited the Air, Space, and Cyberspace Constructive Environment (ASCCE) and integrate with other Service models in support of major Service, Joint, and COCOM exercises, experiments, and mission rehearsals. <i>FY 2013 Plans:</i> Continue to develop the Air, Space, and Cyberspace Constructive Environment (ACCE) which supports the Air Force Modeling & Simulation Training Toolkit (AFMSTT)/ Information Operations Suite (IOS)/Air Warfare Simulation (AWS) modernization effort. <i>FY 2014 Plans:</i> Will continue the development of the Air, Space, and Cyberspace Constructive Environment (ACCE) which supports the Air Force Modeling & Simulation Training Toolkit (AFMSTT)/ Information Operations Suite (IOS)/Air Warfare Simulation (AWS) modernization effort.			
<i>Title:</i> ASCCE C&A / JTTI <i>Description:</i> ASCCE certification and accreditation/Joint Training Transformation Initiative (JTTI). <i>FY 2012 Accomplishments:</i> Developed ASCCE certification and accreditation/JTTI. <i>FY 2013 Plans:</i> Continuing the development of the ASCCE certification and accreditation/JTTI. <i>FY 2014 Plans:</i> Will continue the development of the ASCCE certification and accreditation/JTTI.		0.617	0.981
<i>Title:</i> Program Management Administration (PMA) <i>Description:</i> Program support administration costs support management with engineering and technical for development and implementation <i>FY 2012 Accomplishments:</i> Supported the acquisition program with engineering and technical support. <i>FY 2013 Plans:</i> Support the acquisition program with engineering and technical support. <i>FY 2014 Plans:</i>		0.987	0.839
			0.856

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0207601F: <i>USAF Modeling and Simulation</i>	PROJECT 675135: <i>Warfighter Readiness</i>
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
Will continue to support the acquisition program with engineering and technical support.			
Accomplishments/Planned Programs Subtotals		9.527	8.911
			9.246
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy Air Force Life Cycle Management Center (AFLCMC) at Hanscom AFB, MA manages the acquisition and incremental development process for all M&S activities. All major contracts will be awarded after full and open competition.			
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						PE 0207601F: USAF Modeling and Simulation				675135: Warfighter Readiness					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AFMSTT/(Air Warfare Simulation (AWSIM))	C/CPFF	AFLCMC:Hanscom AFB, MA	-	7.923	Dec 2011	7.091	Dec 2012	7.409	Dec 2013	-		7.409	Continuing	Continuing	TBD
Air, Space & Cyber Constructive Environment Certification & Accrediation / Joint Training Integration/JTTI	MIPR	MITRE:Hanscom AFB, MA	-	0.617	Dec 2011	0.981	Dec 2012	0.981	Dec 2013	-		0.981	Continuing	Continuing	TBD
Subtotal			0.000	8.540		8.072		8.390		0.000		8.390			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Administration	C/Various	AFLCMC:Hanscom AFB, MA	-	0.987	Oct 2011	0.839	Oct 2012	0.856	Oct 2013	-		0.856	Continuing	Continuing	TBD
Subtotal			0.000	0.987		0.839		0.856		0.000		0.856			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force											DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0207601F: USAF Modeling and Simulation				PROJECT 675135: Warfighter Readiness			
	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	9.527		8.911		9.246		0.000		9.246			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0207601F: USAF Modeling and Simulation

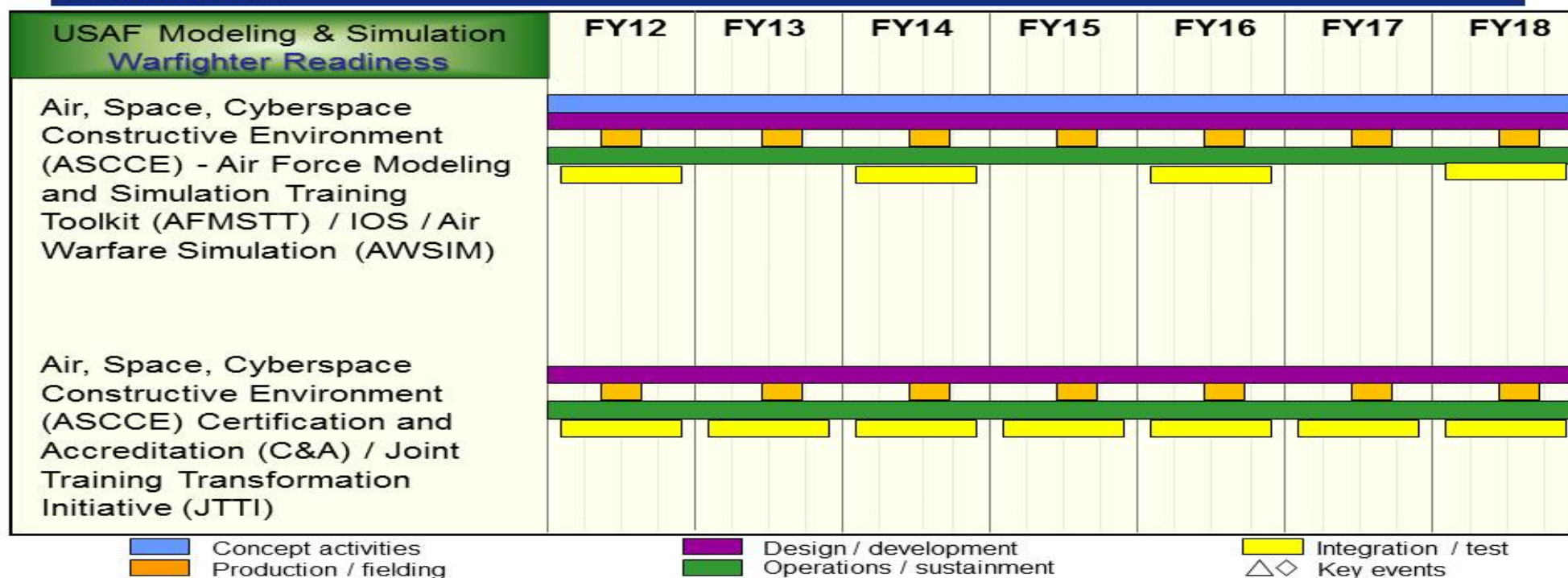
PROJECT

675135: Warfighter Readiness



U.S. AIR FORCE

USAF Modeling & Simulation Warfighter Readiness (675135) Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207601F: <i>USAF Modeling and Simulation</i>	PROJECT 675135: <i>Warfighter Readiness</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ASCCE (AFMSTT/IOS/AWSIM)	1	2012	4	2018
ASCCE C&A/JTTI	1	2012	4	2018