

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207601F USAF Modeling and Simulation
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	20.739	28.866	27.245	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4567 M&S Foundations	5.683	6.273	6.269	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4991 Accelerated Acquisitions	4.641	5.093	5.146	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5135 Warfighter Readiness	10.415	17.500	15.830	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

United States Air Force (USAF) Modeling & Simulation (M&S) projects (Modeling and Simulation Foundations thrust, Accelerated Acquisition thrust, New and Emerging Warfighting Capabilities thrust, and Warfighter Readiness thrust) provide RDT&E funding for corporate M&S training, mission rehearsal, and system development. These thrusts support Department of Defense (DoD) Training Transformation (T2) & acquisition reform initiatives. The USAF M&S Program Element (PE) provides the capability that immerses warfighters in distributed, and/or simulated environments to execute the Global War on Terror (GWOT) during joint mission rehearsal, training, and experimentation.

In support of the DoD T2 initiative, USAF M&S develops and modernizes models and simulations that are the constructive backbone of USAF Distributed Mission Operations (DMO) -- Live, Virtual, Constructive (LVC) environment. DMO enables joint, coalition, and interagency training required to prepare forces for combat by generating the air and space picture for the 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). DMO also provides the current operational environment that allows warfighters to interact with other tactical cockpit simulators as well as the High Demand/Low Density platforms, often unavailable for live training due to real-world operations. USAF M&S is also integral to inter-agency Homeland Defense 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 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. In addition, the Air Force Modeling & Simulation Governance Structure is being revised to more closely align with the DoD Modeling and Simulation Management Structure and better represent all Air Force Modeling and Simulation stakeholders.

This program is in Budget Activity 7 - Operational System Development because it provides RDT&E funding for major USAF Modeling and Simulation efforts.

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(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	22.814	28.981	27.712
(U) Current PBR/President's Budget	20.739	28.866	27.245
(U) Total Adjustments	-2.075	-0.115	
(U) Congressional Program Reductions		-0.036	
Congressional Rescissions		-0.079	
Congressional Increases			
Reprogrammings	-1.439		
SBIR/STTR Transfer	-0.636		
(U) <u>Significant Program Changes:</u>			
FY10: Changes in President's Budget due to reprogramming to meet higher Air Force priorities.			

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207601F USAF Modeling and Simulation				PROJECT NUMBER AND TITLE 4567 M&S Foundations			
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total	
4567 M&S Foundations	5.683	6.273	6.269	0.000	0.000	0.000	0.000	0.000	Continuing	TBD	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0			

(U) A. Mission Description and Budget Item Justification

M&S Foundations (MSF) focuses on integrating foundational capabilities needed to improve the usefulness, productivity, scalability and efficiency of M&S capabilities derived from the Warfighter Readiness (WR) thrust, the Accelerated Acquisitions (AA) thrust, and the New and Emerging Warfighting Capabilities (NEWC) thrust. The efforts supporting the M&S Foundations 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.

MSF provides 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 mission preparation and acquisition of warfighting capabilities 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; energy and signal propagation effects. The rapid composition is based on a durable common architecture framework and common standards. MSF capability also supports efficient, cost-effective verification, validation and accreditation activity across the training, test, experimentation, acquisition, planning and analysis communities.

Air Force Director of Weather (AF/A3O-W) is designated as the DoD Air and Space Natural Environment Modeling and Simulation Executive Agent (ASNE MSEA). ASNE MSEA coordinates all aspects of DoD M&S related to representations of the air and space natural environment, ensuring air and space weather is properly represented in joint and service models, simulations, war games, and experiments. The ASNE MSEA part of this project primarily funds the following: Environmental Scenario Generator, Environmental Data Cube Support System, and Space Weather Analysis as required to support joint M&S program offices and activities like Office of the Secretary of Defense (OSD) Program, Analysis, and Evaluation; Air Force Studies and Analyses Agency; Joint Analysis System; Joint National Training Capability; Distributed Mission Operations & Training (DMO/DMT); One Semi-Automated Force; Navy Probability of Raid Annihilation Assessment; Terminal Fury; Unified Engagement; Hazard Prediction and Assessment Capability; and Joint Expeditionary Force Experiment. Primary customers are combatant commanders, service components, and various DoD organizations conducting simulations and exercises involving air, ground, sea, and space assets. ASNE MSEA develops authoritative natural environment scenarios necessary for robust "What-if" mission planning and rehearsal and for realistic training, analysis, and acquisition models and simulations. ASNE MSEA leads the development and execution of the DoD Integrated Natural Environment Authoritative Representation Process (INEARP) Concept of Operations.

This program is in Budget Activity 7 - Operational System Development because it provides RDT&E funding for major USAF Modeling and Simulation efforts.

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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) MSF Concept exploration/model development/model transition	4.828	5.298	5.274
(U) Provide DoD M&S community with tools to search Air & Space Natural Environment scenarios; measure effects on weapon systems and subsystems and distribute tailored reusable databases and products	0.855	0.975	0.995
(U) Total Cost	5.683	6.273	6.269

(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Not applicable										

(U) **D. Acquisition Strategy**
 OAS, Kirtland AFB, NM manages the acquisition and model development process for all M&S Foundation activities. All major contracts will be awarded after full and open competition.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
07 Operational System Development				0207601F USAF Modeling and Simulation					4567 M&S Foundations			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> Concept Refinement, Technology, Services, and Tools Support	Various	Office of Aerospace Studies, Kirtland, NM; ASC, Wright Patterson AFB, OH	0.000	4.828	Oct-07	5.298	Oct-08	5.274	Oct-09	Continuing	TBD	TBD
ASNE (Services, Tools, and Environmental support)	Various	Various	1.931	0.855	Oct-07	0.975	Oct-08	0.995	Oct-09	Continuing	TBD	TBD
Subtotal Product Development			1.931	5.683		6.273		6.269		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u>												
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			1.931	5.683		6.273		6.269		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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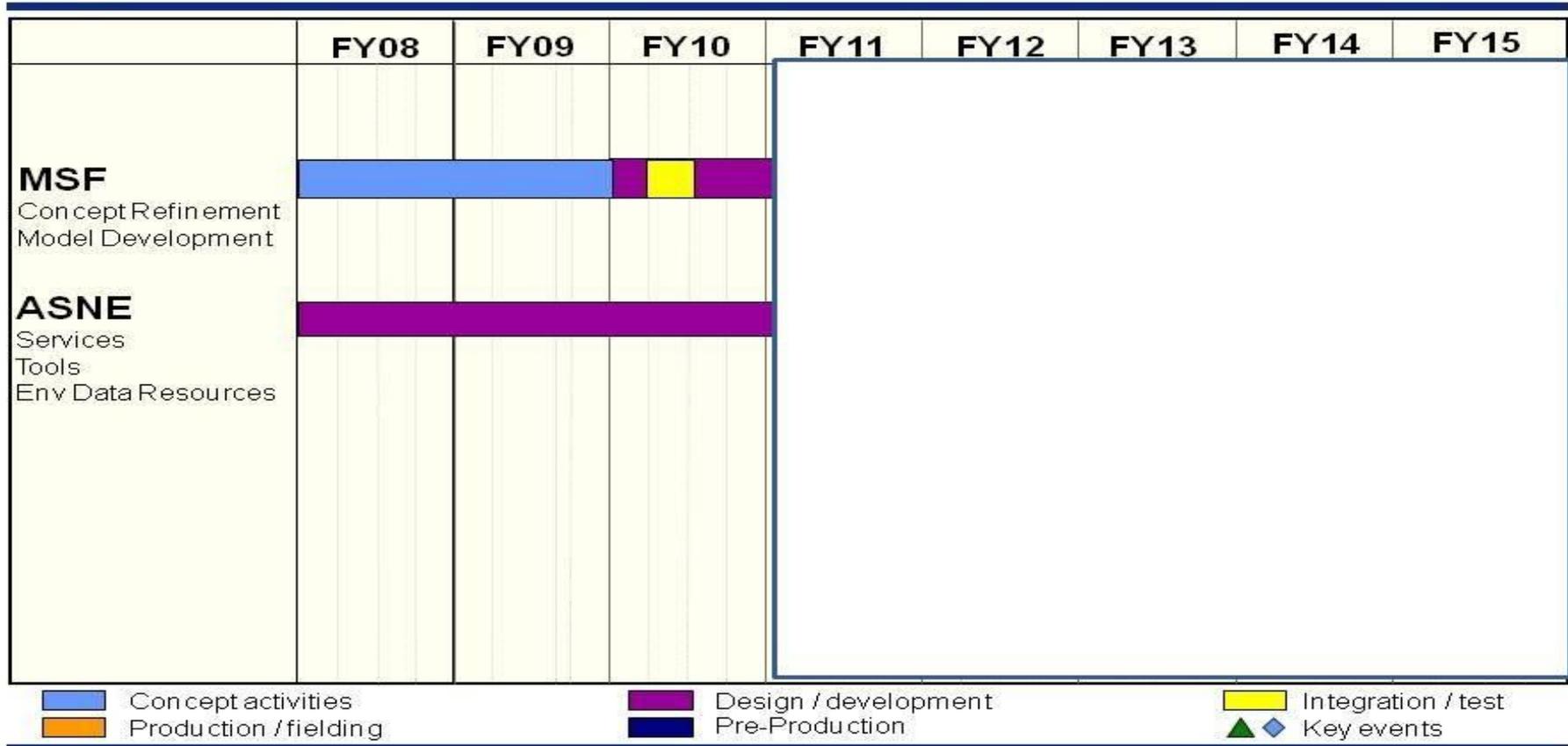
BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0207601F USAF Modeling and Simulation

PROJECT NUMBER AND TITLE
4567 M&S Foundations



MSF Schedule



PB10 R-Docs

Depicted by installation/production flow

1

Exhibit R-4a, RDT&E Schedule Detail

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07 Operational System Development

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PROJECT NUMBER AND TITLE

4567 M&S Foundations

(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) M& Foundations (Dev, T&E, Tools)

1-4Q

1-4Q

1-4Q

(U) ASNE (Services, Tools, and Environmental support)

1-4Q

1-4Q

1-4Q

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207601F USAF Modeling and Simulation				PROJECT NUMBER AND TITLE 4991 Accelerated Acquisitions		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
4991 Accelerated Acquisitions	4.641	5.093	5.146	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Project 4991, Accelerated Acquisition (AA) focuses on fostering M&S tools, data, and infrastructure to enable high confidence acquisition of capabilities to support the joint warfighter. This includes Live-Virtual-Constructive (LVC) infrastructure, tools and processes supporting LVC events, and models, tools, data, simulations/stimulation to support requirements definition, systems engineering and test activities. Activities also include studies and analysis to support both current program planning and execution and future program planning. These efforts will enable 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 is to improve interoperability of weapon systems and platforms through continuing, rigorous interoperability evaluation in a representative Joint Mission Environment. Additionally, AA activities seek 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 provides the capability to improve both Service and Joint system performance in a system-of-systems environment. Connectivity established by the infrastructure builds upon existing Service and Joint combat system engineering and test sites, such as 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 includes concept of operations, business rules, and procedures to enable acquisition managers to effectively use LVC capabilities.

These efforts enable accurately represented Command, Control, Communications, Computer, and Intelligence (C4I) networks for capability requirement definition, development, and testing activities to evaluate those systems for interoperability and integration into a joint environment. This will address interoperability issues by providing a means for discovering issues early on. Initiatives support the Homeland Defense Testbed, Command & Control (C2) Constellation program, node additions, and various other activities that use the network infrastructure located around the country.

This project is in Budget Activity 7 - Operational System Development because it enhances operational system developments.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Continue communications architectures and network support	1.484	0.150	0.147
(U) Continue to support LVC events to assist in Air Force requirements definition, development and T&E activities	0.750	0.225	0.221
(U) Develop, enhance and verify models, tools, data, simulations/stimulation environments for systems engineering and test activities	0.707	3.930	4.003
(U) Continue to support Joint Service integration & test	1.700	0.788	0.775
(U) Total Cost	4.641	5.093	5.146

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207601F USAF Modeling and Simulation

PROJECT NUMBER AND TITLE

4991 Accelerated Acquisitions

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							

(U) Not applicable

(U) **D. Acquisition Strategy**

SAF/XC provides oversight of the Accelerated Acquisition project. Various Air Force activities develop, verify, and validate models, tools, data and simulations/simulation environments. All major contracts will be awarded after full and open competition.

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(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Architecture & Links	Various	Various	0.000	1.484	Nov-07	0.150	Nov-08	0.147	Nov-09	Continuing	TBD	TBD
Event Coordination	Various	Various	0.000	0.750	Nov-07	0.225	Nov-08	0.221	Nov-09	Continuing	TBD	TBD
Model, Tool, Data, Simulation Development & Verification	Various	Various	0.000	0.707	Nov-07	3.930	Nov-08	4.003	Nov-09	Continuing	TBD	TBD
Joint Service Integration	Various	Various	0.000	1.700	Nov-07	0.788	Nov-08	0.775	Nov-09	Continuing	TBD	TBD
Subtotal Product Development			0.000	4.641		5.093		5.146		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			0.000	4.641		5.093		5.146		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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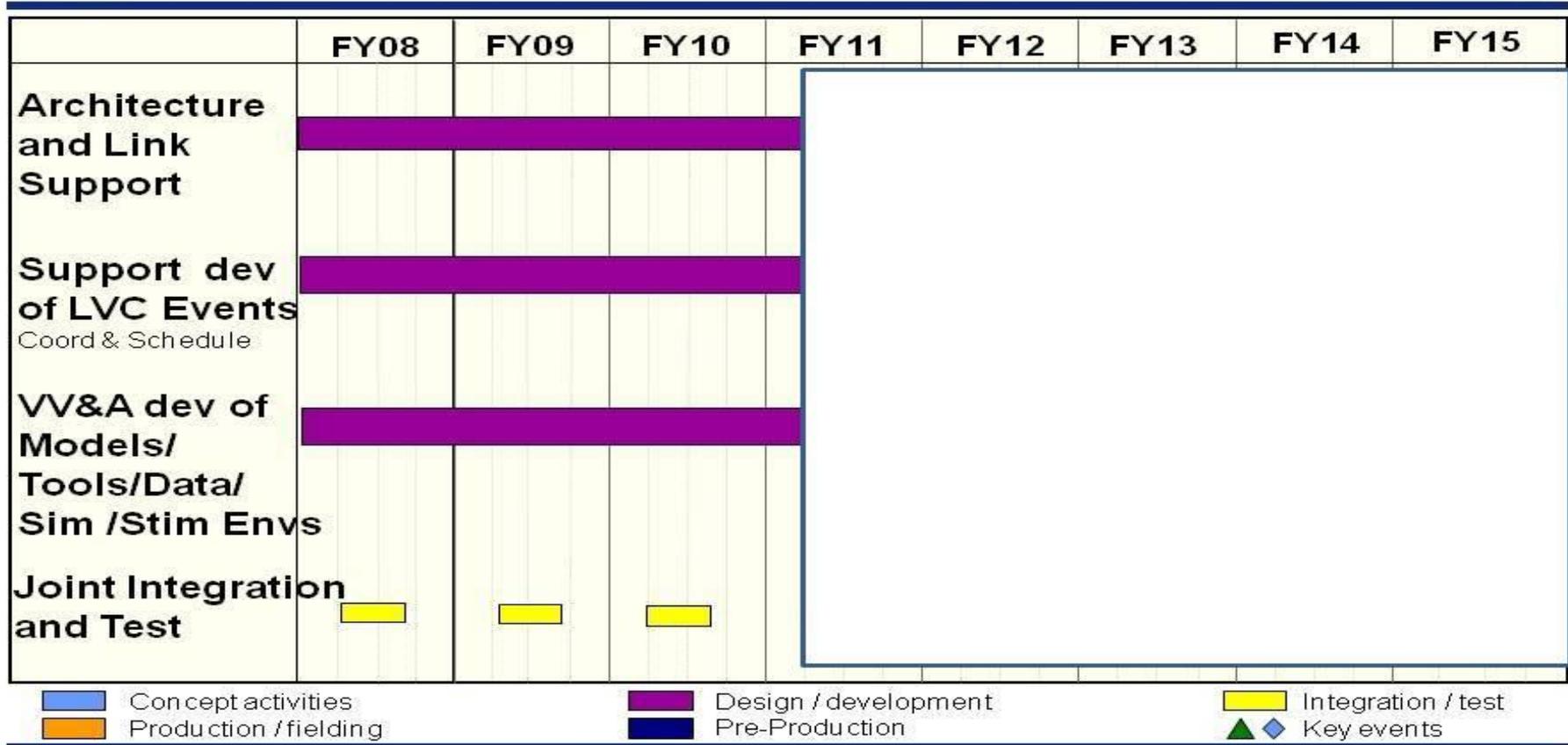
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PE NUMBER AND TITLE
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PROJECT NUMBER AND TITLE
4991 Accelerated Acquisitions



Accelerated Acquisition Schedule



PB10 R-Docs

Depicted by in stallation/production flow

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Project 4991

Exhibit R-4a, RDT&E Schedule Detail

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07 Operational System Development

PE NUMBER AND TITLE

0207601F USAF Modeling and Simulation

PROJECT NUMBER AND TITLE

4991 Accelerated Acquisitions

(U) <u>Schedule Profile</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Architecture & Links	1-4Q	1-4Q	1-4Q
(U) Event Support of LVC Events	1-4Q	1-4Q	1-4Q
(U) VV&A/model, tool, data, simulation/stimulation environments	1-4Q	1-4Q	1-4Q
(U) Joint Service Integration	2-3Q	2-3Q	2-3Q

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0207601F USAF Modeling and Simulation			PROJECT NUMBER AND TITLE 5135 Warfighter Readiness		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5135 Warfighter Readiness	10.415	17.500	15.830	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Warfighter Readiness (WR) focuses on putting the warfighter in a simulated environment to improve warfighting decision-making, execution, skills and processes. Examples include operational training, mission rehearsal, operational decision-making, mission execution, and concept development. Activities also include studies and analysis to support both current program planning and execution and future program planning.

WR includes the constructive back plane for live and virtual assets to work within for Distributed Mission Operations (DMO). DMO is the Air Force's contribution to the Joint National Training Concept (JNTC). WR's capabilities provided within the environment are the AF's contribution to the Joint Training Confederation's battle staff training environment used to support Combatant Commanders, Joint Task Force, and Component Commander staff readiness training. The capabilities support Joint/Service exercises including, but not limited to: Keen Edge/Yama Sakura, Ulchi Freedom Guardian, Flexible Leader, Blue Flag, Joint Expeditionary Force Experiment, Red/Virtual Flag, Key Resolve, and Talisman Saber.

Other capabilities provide for Intelligence, Surveillance, and Reconnaissance (ISR) training and exercise support by using a virtual ISR system for command and staff level training. The simulation provides commanders, staffs and operators with a common training system for the employment, tasking, exploitation and dissemination of imagery. The environment also provides models simulating electronic combat, electronic warfare, targeting, ISR representation, and intelligence integral to Air and Space Operations Center (AOC) training.

WR also includes the Air Force Modeling & Simulation Training Toolkit (AFMSTT) modernization. AFMSTT provides: the Air Warfare Simulation System (AWSIM) which interfaces to Command, Control, Communications, Computers, and Intelligence (C4I) to Theater Battle Management Core System (TBMCS) and the Graphical Input Aggregate Control (GIAC), the Logistics Simulation (LOGSIM), the Intelligence Management Controller Node (IMCN), and the AWSIM Analysis Tool (AAT). AFMSTT's capabilities require modernization to support Air Force Title X requirements.

This program is in Budget Activity 7 - Operational System Development because it provides RDT&E funding for major USAF Modeling and Simulation efforts.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) AFMSTT Modernization	7.000	11.089	9.101
(U) Distributed Mission Operations Integration (DMOI)	3.415	6.411	6.729
(U) Total Cost	10.415	17.500	15.830

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0207601F USAF Modeling and Simulation

PROJECT NUMBER AND TITLE

5135 Warfighter Readiness

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							

(U) Not applicable

(U) **D. Acquisition Strategy**

Electronic Systems Center (ESC) at Hanscom AFB, MA manages full and open acquisition and model development process for all WR activities.

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(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> AFMSTT	Various	ESC, Hanscom AFB, MA	23.401	7.000	Dec-07	11.089	Dec-08	9.101	Dec-09	Continuing	TBD	TBD
DMOI	Various	ESC, Hanscom AFB, MA	7.821	3.415	Dec-07	6.411	Dec-08	6.729	Dec-09	Continuing	TBD	TBD
Subtotal Product Development			31.222	10.415		17.500		15.830		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			31.222	10.415		17.500		15.830		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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PE NUMBER AND TITLE
0207601F USAF Modeling and Simulation

PROJECT NUMBER AND TITLE
5135 Warfighter Readiness



Warfighter Readiness Schedule

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Air Force M&S Training Toolkit (AFMSTT)								
Distributed Mission Operations-Integration (DMOI)								

■ Concept activities
■ Production / fielding

■ Design / development
■ Pre-Production

■ Integration / test
▲ ◆ Key events

PB10 R-Docs

Depicted by installation/production flow

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PROJECT NUMBER AND TITLE

5135 Warfighter Readiness

(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) AFMSTT Modernization

1-4Q

1-4Q

1-4Q

(U) DMOI Development

1-4Q

1-4Q

1-4Q

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