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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0901226F / <i>Air Force Studies and Analysis Agency</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	0.866	5.309	18.937	0.000	18.937	19.500	20.265	20.735	20.862	Continuing	Continuing
676009: <i>M & S DEVELOPMENT</i>	-	0.866	5.309	18.937	0.000	18.937	19.500	20.265	20.735	20.862	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Leads, conducts, reviews, and ensures the analytic integrity of studies and analysis across air, space, and cyberspace domains to inform enterprise-level decisions for the DAF per HAFMD 1-58. Evaluates USAF and USSF force structure options, and capability/capacity tradeoffs, to address Force Planning guidance of 2022 NDS. Supports OIs to include continued analytical efforts examining issues, identifying high return on investment solutions for strategic capability gaps. Implements SECAF approved MI#3 recommendations focused on strengthening the analytical capacity across the DAF. Enables DAF M&S Ecosystem deployment and sustainment, providing enterprise tools, models, and computing processing to AF and SF organizations in a cost-efficient manner. Implements Project PHALANX recommendations approved by SECAF in PAD 22-03. Enables DAF M&S Ecosystem deployment and sustainment, providing enterprise tools, models and computing processing to AF and SF organizations in a cost-efficient manner.

As new technologies are introduced to the battlefield (Digital Electronic Jammers, maneuvering Surface-to-Surface Missiles, Directed Energy Weapons, etc.) along with evolving warfighting techniques and support operations, the range of capabilities that needs to be covered by analytic tools needs to expand as well. M&S creation and enhancement can require extensive research in how to properly implement the emerging weapons capabilities as well as demand development of software techniques to implement the changes. Additionally, emerging and continuing focus areas such as Space, Irregular Warfare, Information Operations, Cyber warfare and ISR demand specific tools of their own for new exploration and development. Provides for development and enhancement of modeling and simulation (M&S) tools for strategic planning, operational requirements, modernization and recapitalization of systems and programs, as well as the Planning, Programming, Budgeting and Execution (PPBE) processes for the AF Analytic Community and Secretary of the Air Force Standard Analysis Toolkit in support of AF Senior Leadership. These focus areas require examination in isolation as well as cross-domain making the problem more complex and increasing the R&D challenges to field new decision support tools.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY2023 0M was expended for civilian pay expenses in this program element, and in FY2024 0M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because 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.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	0.899	5.309	13.702	0.000	13.702
Current President's Budget	0.866	5.309	18.937	0.000	18.937
Total Adjustments	-0.033	0.000	5.235	0.000	5.235
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.033	0.000			
• Other Adjustments	0.000	0.000	5.235	0.000	5.235

Change Summary Explanation

Increase in 3600 funding was to correct PDM II Analysis Working Group (AWG) funding erroneously programmed as 3400 in FY23. There is a direct correlation in funding reducing 3400 for the program.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Title: Modeling and Simulation Development	0.866	5.309	18.937
Description: Develop and Update Modeling & Simulation (M&S) tools.			
FY 2024 Plans: Continue research and development of M&S tools			
FY 2025 Plans: Continue research and development of M&S tools			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreased due to decrease in requirements			
Accomplishments/Planned Programs Subtotals	0.866	5.309	18.937

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

N/A

Remarks

N/A.

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E. Acquisition Strategy

Previous and planned future efforts have been/will be awarded under existing Task Order contracts.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0901226F / Air Force Studies and Analysis Agency	Project (Number/Name) 676009 / M & S DEVELOPMENT

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

M&S Development	
Modeling & Simulation Development	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0901226F / <i>Air Force Studies and Analysis Agency</i>	Project (Number/Name) 676009 / <i>M & S DEVELOPMENT</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>M&S Development</i>				
Modeling & Simulation Development	1	2023	4	2028

Note
A9 anticipates work continuing in the following areas: (1) research into how to better model new friendly and enemy weapons systems, (2) development of tools to better examine evolving weapons technologies and (3) development of new models to better populate the data requirements of existing tools.