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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force</i> / BA 6: <i>RDT&E Management Support</i>					R-1 Program Element (Number/Name) PE 0702806F / <i>Acquisition and Management Support</i>							
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	36.317	49.152	20.478	0.000	20.478	21.603	21.645	21.528	21.728	0.000	192.451
66ACSI: <i>ACQ and Command Support Integration</i>	-	36.317	49.152	20.478	0.000	20.478	21.603	21.645	21.528	21.728	0.000	192.451

A. Mission Description and Budget Item Justification

The program funds efforts to meet the Defense Acquisition Workforce Improvement Act (DAWIA), as well as Congressional, SECDEF, and SECAF mandates to provide program management execution tools, systems integration and architectural analysis, information technology infrastructure development, and technical workforce management. Funding also provides the framework for Air Force business and acquisition transformation in developing capabilities-based architectures, re-engineering and enabling technologies, integrating robust systems engineering into early acquisition processes, acquisition process improvement analysis, and developing and managing a technical workforce with the expertise to uniformly implement OSD and Air Force engineering guidance and policies. These efforts provide stability in Air Force Acquisition by integrating major processes to reverse trends toward unpredictable program cost, schedule, and performance to facilitate quick response to urgent operational needs from across the entire spectrum of potential conflicts. These integrated capabilities will provide OSD and AF acquisition leadership insights needed to effectively manage a complex portfolio of acquisition programs through more timely and reliable access to authoritative acquisition data.

The Air Force is refocusing a number of science and technology concept explorations in artificial intelligence (AI) across command, control, communications, sensor, and intelligence areas within PE 0602788F, Dominant Information Sciences and Methods, and PE 0602204F, Aerospace Sensors, to improve and accelerate the delivery of artificial intelligence warfighting capabilities under the direction of both the Vice Chief of Staff of the Air Force and the Assistant Secretary of the Air Force (Acquisition, Technology & Logistics) and exercised through the Air Force Capability Development Council. The Air Force will now perform these science and technology concept explorations under this Program Element as the Air Force continues to respond to and reflect 1) the vision outlined for Artificial Intelligence in the 2018 National Defense Strategy, 2) expectations outlined by the February 2019 White House Executive Order on Artificial Intelligence and the United States Department of Defense (DoD) Artificial Intelligence Strategy, 3) initiatives by other Armed Services to create AI-centric organizations, 4) Senior Air Force leadership goals to develop Artificial Intelligence applications for the United States Air Force in the near term, and 5) senior Department of Defense leadership objectives to enrich and strengthen the broader Air Force and Department Artificial Intelligence ecosystem to impact national security.

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 FY22 \$0M was expended for civilian pay expenses in this program element, and in FY23 \$0M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 6, RDT&E Management Support because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	37.211	24.306	25.736	0.000	25.736
Current President's Budget	36.317	49.152	20.478	0.000	20.478
Total Adjustments	-0.894	24.846	-5.258	0.000	-5.258
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-0.754			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	25.600			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.894	0.000			
• Other Adjustments	0.000	0.000	-5.258	0.000	-5.258

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 66ACSI: *ACQ and Command Support Integration*

Congressional Add: *Digital Transformation Office (DTO)*

Congressional Add: *Document Generation Platform*

Congressional Add: *Digital Ecosystem Development*

Congressional Add Subtotals for Project: 66ACSI

Congressional Add Totals for all Projects

	FY 2022	FY 2023
	3.886	-
	-	15.000
	-	10.600
Congressional Add Subtotals for Project: 66ACSI	3.886	25.600
Congressional Add Totals for all Projects	3.886	25.600

Change Summary Explanation

FY2024 funding reduced by \$5.258 million to support other higher Air Force requirements.

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Appropriation/Budget Activity 3600 / 6					R-1 Program Element (Number/Name) PE 0702806F / <i>Acquisition and Management Support</i>				Project (Number/Name) 66ACSI / <i>ACQ and Command Support Integration</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
66ACSI: <i>ACQ and Command Support Integration</i>	-	36.317	49.152	20.478	0.000	20.478	21.603	21.645	21.528	21.728	0.000	192.451
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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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 FY21 0M was expended for civilian pay expenses in this program element, and in FY22 0M is forecasted for civilian pay expenses in this program element.

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

	FY 2022	FY 2023	FY 2024
Title: Acquisition Mandates	3.110	1.246	1.864
Description: Supporting Congressional, SECDEF, and SECAF mandates. Program funding provides the framework for Air Force business and acquisition.			
FY 2023 Plans: Continue program management and resources management oversight.			
FY 2024 Plans: Continue program management and resources management oversight.			
FY 2023 to FY 2024 Increase/Decrease Statement: Increased requirement.			
Title: Technical and Analytical Support	1.849	1.732	2.270

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p>Description: Supports Acquisition Domain-level effort to integrate existing acquisition business systems/services, data, and processes supporting key Acquisition capabilities at the enterprise level (via the Acquisition Domain Capabilities Integration (ADCI) activities). This support entails analysis required to architect an integrated environment on multiple hosting platforms to support the portfolio of acquisition business systems by solving problems across/outside of individual system boundaries with the goal of reducing redundancy, improving systems operations, and improving management of data resulting in dramatically improved transparency, efficiency, and effective management of the Acquisition process. This support also helps implement standards for data management and service-oriented design methodology to facilitate efficiency and interoperability as well as providing some business intelligence services. The creation and support of domain-level requirements and governance processes as well as the creation of domain-wide data standards are additional support items provided. In addition, includes support for Artificial Intelligence/Machine Learning (AI/ML) pilots, experimentation associated with business analytics, acquisition program performance measures, and predictive analytics in support of decision-making and workforce training for the acquisition enterprise.</p> <p>FY 2023 Plans: Continue supporting the automation of key Life Cycle Management Center (LCMC) and Space & Missile Systems Center (SMC) acquisition processes and onboarding of new capabilities across the Acquisition Domain. Supports refinement of CIO portfolio Artificial Intelligence (AI)/Machine Learning (ML) vision and incorporating functionalities built as part of AI/ML pilots, experimentation associated with business analytics, acquisition program performance measures, and predictive analytics in support of decision-making and workforce training for the acquisition enterprise.</p> <p>FY 2024 Plans: Continue supporting the automation of key Life Cycle Management Center (LCMC) and Space & Missile Systems Center (SMC) acquisition processes and onboarding of new capabilities across the Acquisition Domain. Supports refinement of CIO portfolio Artificial Intelligence (AI)/Machine Learning (ML) vision and incorporating functionalities built as part of AI/ML pilots, experimentation associated with business analytics, acquisition program performance measures, and predictive analytics in support of decision-making and workforce training for the acquisition enterprise.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increased requirement.</p>				
<p>Title: Associated Tool Development</p> <p>Description: Upgrade the enterprise tools that assist PMs and acquisition professionals with the day-to-day program management tasks throughout an Acquisition program's lifecycle.</p> <p>FY 2023 Plans:</p>		0.788	0.000	0.000

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
N/A				
<p>FY 2024 Plans: Upgrade the enterprise tools that assist PMs and acquisition professionals with the day-to-day program management tasks throughout an Acquisition program's lifecycle.</p>				
<p>Title: Project Management Resource Tools (PMRT)</p> <p>Description: Upgrade enterprise PMRT tools that provide program/project resource management support to the Acquisition community.</p> <p>FY 2023 Plans: Continue enhancement of PMRT to allow increased visibility to acquisition programmatic and financial information for all AF Acquisition investment programs. Continued expansion of critical PMRT interfaces via Acquisition Data Service Broker (ADSB) and enhance PMRT native apps. Increase PMRT refactoring and migration to the Cloud for the incorporation of Artificial Intelligence (AI), Machine Learning (ML), and Predictive Analysis.</p> <p>FY 2024 Plans: Continue enhancement of PMRT to allow increased visibility to acquisition programmatic and financial information for all AF Acquisition investment programs. Continued expansion of critical PMRT interfaces via Acquisition Data Service Broker (ADSB) and enhance PMRT native apps. Increase PMRT refactoring and migration to the Cloud for the incorporation of Artificial Intelligence (AI), Machine Learning (ML), and Predictive Analysis.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Decreased requirement.</p>		8.677	5.713	3.692
<p>Title: Capabilities Integration Environment (CIE)</p> <p>Description: CIE is an Infrastructure as a Service (IaaS) provider that enables application proofs-of-concept, development, integration, and test activities in accredited on-premises government cloud and third-party commercial cloud environments.</p> <p>FY 2023 Plans: Continue support for secure, scalable environment for R&D, DT/OT, integration, exercises, experimentation, acquisition development and direct Warfighter support.</p> <p>FY 2024 Plans:</p>		0.938	1.147	1.349

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Continue support for secure, scalable environment for R&D, DT/OT, integration, exercises, experimentation, acquisition development and direct Warfighter support. FY 2023 to FY 2024 Increase/Decrease Statement: Increased requirement.				
Title: USAF Artificial Intelligence Accelerator at MIT Description: Establish the first phase of a state-of-the-art, end-to-end, sustainable ecosystem of AI technology from basic research to transformed data sets ready for use in developing artificial intelligence algorithms and operational prototypes. This effort creates an environment where integrated teams of MIT researchers and USAF Airmen develop Challenge Problems in AI and invites the academic and commercial communities to propose solutions to those Challenge Problems. FY 2023 Plans: Continue to perform each of the following activities: Guardian Autonomy for Safe Decision Making; Fast AI; Transferring Multi-Robot Learning through Virtual and Augmented Reality for Rapid Disaster Response; Conversational Interaction for Unstructured Information Access and Language Learning; Multimodal Vision for Synthetic Aperture Radar; AI-Assisted Optimization of Training Schedules; The Earth Intelligence Engine; Robust Neural Differential Models for Navigation and Beyond; Objective Performance Prediction & Optimization using Physiological and Cognitive Metrics; AI-Enhanced Spectral Awareness and Interference Rejection; Application of Evolutionary Algorithms for DoD Complex Enterprises; AI Education Research: Know, Apply and Lead; and Automation in Space Domain Awareness. FY 2024 Plans: Continue to perform each of the following activities: Guardian Autonomy for Safe Decision Making; Fast AI; Transferring Multi-Robot Learning through Virtual and Augmented Reality for Rapid Disaster Response; Conversational Interaction for Unstructured Information Access and Language Learning; Multimodal Vision for Synthetic Aperture Radar; AI-Assisted Optimization of Training Schedules; The Earth Intelligence Engine; Robust Neural Differential Models for Navigation and Beyond; Objective Performance Prediction & Optimization using Physiological and Cognitive Metrics; AI-Enhanced Spectral Awareness and Interference Rejection; Application of Evolutionary Algorithms for DoD Complex Enterprises; AI Education Research: Know, Apply and Lead; and Automation in Space Domain Awareness. FY 2023 to FY 2024 Increase/Decrease Statement: Decreased requirement.		15.000	13.514	11.103
Title: Development and Retention Description: Supports activities to develop, manage and retain the acquisition workforce.		2.069	0.200	0.200

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
FY 2023 Plans: Continue to perform activities to develop, manage, and retain the acquisition workforce by providing training on enhanced business and engineering processes.				
FY 2024 Plans: Continue to perform activities to develop, manage, and retain the acquisition workforce by providing training on enhanced business and engineering processes.				
Accomplishments/Planned Programs Subtotals		32.431	23.552	20.478
		FY 2022	FY 2023	
Congressional Add: Digital Transformation Office (DTO)		3.886	-	
FY 2022 Accomplishments: Digital Transformation Office (DTO) - Demonstrate a secure document technology that showed success via the SIBR/STTR program via both Phase I and Phase II contracts. Phase 3 SBIR/STTR issued direct to Inkit that builds out a federal use for its document security technology. (\$3.886M)				
Congressional Add: Document Generation Platform		-	15.000	
FY 2023 Plans: Doc generation Platform - Creating a file wrapper that enable secure documents at the document level that are geo fenced, open count controlled, time stamp corruptible, etc. (\$15.M)				
Congressional Add: Digital Ecosystem Development		-	10.600	
FY 2023 Plans: Digital First Ecosystem - Building out connectivity between digital doers, digital needs, and digital solutions both inside and outside of the government. Leveraging NetworkOS, facilitated workshops, and culture to enable digital. (\$10.6M)				
Congressional Adds Subtotals		3.886	25.600	
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
N/A				