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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 3: Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603788F / <i>Battlespace Knowledge Development and Demonstration</i>
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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	-	67.753	55.919	37.779	0.000	37.779	39.528	36.693	36.335	37.667	Continuing	Continuing
635321: <i>C4I Battlespace Dev and Demo</i>	-	45.542	36.396	24.682	0.000	24.682	26.026	21.145	20.972	21.741	Continuing	Continuing
635329: <i>Cyber Battlespace Dev & Demo</i>	-	22.211	19.523	13.097	0.000	13.097	13.502	15.548	15.363	15.926	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program develops and demonstrates Air Force enterprise-centric information technologies for the warfighter. The C4I Battlespace Dev and Demo project provides technology enabling the Air Force (a) to monitor, assess, plan, and execute missions rapidly across the full spectrum of operations at all levels of war and during all phases of conflict; (b) to field advanced, secure, net-enabled architectures and communications/network technologies in support of persistent, global, and survivable kinetic and non-kinetic military operations; (c) to process and exploit data and information from a variety of sources and domains to create a common operating picture of the battlespace; and (d) to provide the decision maker and staff with seamless access to tailored information within a mobile, dynamic, and scalable, globally distributed Air Operations Center, as well as among other producers, consumers, and managers of information relevant to other particular Communities of Interest (COI). The Cyber Battlespace Dev & Demo project develops the ability to deliver cyber-attack capabilities (access, stealth, persistence, intelligence, and weapons delivery), cyber defense capabilities (attack detection, attack attribution, and response automation) and cyber support capabilities (situation awareness and war gaming). This project will also develop (a) a science and engineering capability demonstrating new models of computation; (b) novel approaches for high performance, interactive, net-centric, distributed and embedded computing systems; and (c) the technological tools enabling affordable, large-scale, and complex software-intensive systems.

The National Defense Strategy and Air Force Future Operating Concept established science and technology challenges to enable operational agility (the ability to rapidly generate and shift among multiple solutions for a given challenge) as a way to adapt swiftly to any situation or enemy action. Operational agility will require flexibility (manifested as multi-domain operations), speed (manifested as superior decision speed), coordination (manifested as dynamic command and control), balance (manifested as presenting a balanced capability mix), and strength (manifested as performance-optimized teams). In order to enable operational agility, this program will begin to shape future research and development (R&D) to focus on technologies in support of operational agility through multi-domain command and control (MDC2) capabilities.

This program has been coordinated through the Department of Defense Science and Technology Executive Committee process to harmonize efforts and eliminate duplication.

This program is in Budget Activity 3, Advanced Technology Development because this budget activity includes development of subsystems and components and efforts to integrate subsystems and components into system prototypes for field experiments and/or tests in a simulated environment.

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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	72.138	51.824	59.213	0.000	59.213
Current President's Budget	67.753	55.919	37.779	0.000	37.779
Total Adjustments	-4.385	4.095	-21.434	0.000	-21.434
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	17.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	-12.905			
• SBIR/STTR Transfer	-4.385	0.000			
• Other Adjustments	0.000	0.000	-21.434	0.000	-21.434

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

Project: 635321: *C4I Battlespace Dev and Demo*

Congressional Add: *Program Increase - Assured Communication and Networks*

Congressional Add: *Project Increase - Command and Control Capability Development and Deployment*

Congressional Add: *Program Increase - Non-PKI Based Advanced Encryption Modalities*

Congressional Add Subtotals for Project: 635321

Project: 635329: *Cyber Battlespace Dev & Demo*

Congressional Add: *Project Increase - Development of Cybersecurity Methodologies*

Congressional Add: *Project Increase - Skydome Trusted Smart-X Experimentation Environment*

Congressional Add Subtotals for Project: 635329

Congressional Add Totals for all Projects

	FY 2022	FY 2023
	9.707	10.000
	4.853	-
	-	7.000
	14.560	17.000
	2.902	-
	0.194	-
	3.096	-
	17.656	17.000

Change Summary Explanation

In FY 2023, Congress directed transformational capability activity realignment into Program 0603032F, Future AF Integrated Technology Demos, Project 0603030, Air Force Vanguard, in order to provide a more complete picture of the Vanguard program. As a result, FY 2024 funding is reduced in the FY 2024 President Budget from the levels in the FY 2023 President's Budget.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force										Date: March 2023		
Appropriation/Budget Activity 3600 / 3					R-1 Program Element (Number/Name) PE 0603788F / <i>Battlespace Knowledge Development and Demonstration</i>				Project (Number/Name) 635321 / <i>C4I Battlespace Dev and Demo</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
635321: <i>C4I Battlespace Dev and Demo</i>	-	45.542	36.396	24.682	0.000	24.682	26.026	21.145	20.972	21.741	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The National Defense Strategy and Air Force Future Operating Concept established science and technology challenges to enable operational agility (the ability to rapidly generate and shift among multiple solutions for a given challenge) as a way to adapt swiftly to any situation or enemy action. In order to enable multi-domain operations, this project will begin to shape future research and development to focus on technologies in support of multi-domain command and control.

In order to achieve operational agility, the Air Force must be able (a) to monitor, assess, plan, and execute missions rapidly across the full spectrum of operations at all levels of war and during all phases of conflict; (b) to field advanced, secure, net-enabled architectures and communications/network technologies in support of persistent, global, and survivable kinetic and non-kinetic military operations; (c) to process and exploit data and information from a variety of sources and domains to create a common operating picture of the battlespace; and (d) to provide the decision maker and staff with seamless access to tailored information within a mobile, dynamic, and scalable, globally distributed Air Operations Center, as well as among other producers, consumers, and managers of information relevant to other particular Communities of Interest (COI).

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

	FY 2022	FY 2023	FY 2024
Title: Transformational Technology Development	5.811	0.000	0.000
<p>Description: This effort will initiate new and continue existing Transformational Technology Development efforts. The Transformational Technology Development program will select new projects, in alignment with mission focused areas which include, but are not limited to: Intelligent Planning and Wargaming, Battlespace Awareness, Integrated Base Defense, and Hypersonic Multi-Mission Aircraft. Investments focus on technology development efforts including, but are not limited to technologies to enhance survivability, operability and performance of personnel, sensors, and structures in a threat environment through advances in enterprise-centric information technologies, offensive and defensive cyber operations capabilities, advanced command and control capabilities, and collection, management, analysis, and exploitation of complex data. This investment is overseen by senior representatives from Air and Space Forces who participate in the submission, initial review, and down-selection of Transformational Technology Development proposed efforts. Final selections will be reviewed by the Air Force Deputy Assistant Secretary for Science, Technology, and Engineering before a final recommendation for Congressional approval is made.</p> <p>FY 2023 Plans:</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Funding transferred to Line 16 for future transformational capabilities under Program 0603032F Future AF Integrated Technology Demos, Project 630320: Air Force Vanguard, effort Vanguard Prospect - Resolute Sentry.				
FY 2024 Plans: N/A				
FY 2023 to FY 2024 Increase/Decrease Statement: N/A				
Title: Multi-Domain Command and Control		6.721	7.951	10.118
Description: Perform research and development that will advance existing, or discover new, command and control capabilities to support multi-domain operations for air, space, cyberspace, land, sea, and undersea.				
FY 2023 Plans: Continue demonstration of communication, information management, and replication capabilities for intra base distribution of one Command and Control operational echelon function. Continue executing experiments, based on operational scenarios, which incorporate process management execution into the extensible Space command and control framework, and which integrate disparate data and applications, providing a pedigree for proposed tasking options to decision makers. Continue development of tools, technology, and framework for execution management of operational center process workflows and applications.				
FY 2024 Plans: Continue demonstration of communication, information management, and replication capabilities for intra base distribution of one Command and Control operational echelon function. Continue executing experiments, based on operational scenarios, which incorporate process management execution into the extensible Space command and control framework, and which integrate disparate data and applications, providing a pedigree for proposed tasking options to decision makers. Continue development of tools, technology, and framework for execution management of operational center process workflows and applications. Initiate demonstration of a fused installation security architecture- air, ground, and cyber, multi-mission Unmanned Air System "wingmen" for installation security capabilities. Initiate development and demonstration of distributed operational-echelon Command and Control deployable kits for rapid distribution and dispersion of Air Operations Center functions theater-wide.				
FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024 increased compared to FY 2023 by \$2.167 million due to increased emphasis in deployable Command and Control kits to enable theater-wide distributed Air Operations Center capabilities.				
Title: Artificial Intelligence/Autonomy/Machine Learning		3.155	2.180	2.774

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>Description: Develop and demonstrate the ability to harness the speed and scale of computers and machines to address problems of complexity.</p> <p>FY 2023 Plans: Continue development of robust artificial intelligence/machine learning for targeted transition capabilities. Continue development to operationalize and implement state of the art learning models. Continue to integrate within the StreamlinedML framework. Continue development of secure diode for cross-domain embedded solution. Initiate implementation and testing of neuromorphic-based algorithms for processing and exploitation of multiple data feeds.</p> <p>FY 2024 Plans: Continue development of robust artificial intelligence/machine learning for targeted transition capabilities. Continue development operationalizing and implement state of the art learning models. Continue to integrate within the StreamlinedML framework. Complete development of secure diode for cross-domain embedded solution. Continue implementing and testing neuromorphic-based algorithms for processing and exploitation of multiple data feeds.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024 increased compared to FY 2023 by \$0.594 million. Justification for this increase is described in the plans above.</p>			
<p>Title: Data to Decisions</p> <p>Description: Develop and demonstrate the collection, management, analysis, and exploitation of complex data for availability to Air Force and other stakeholders.</p> <p>FY 2023 Plans: Continue development and demonstration of intelligence analysis capabilities from multiple intelligence sources for both near-real time and post mission. Continue research and development in data analytics and strategic indications and warnings for the air and space domains. Continue performing service-based capability development. Continue investments to advance systems to deliver multi-INT exploitation on-board and in real-time.</p> <p>FY 2024 Plans: Continue development and demonstration of intelligence analysis capabilities from multiple intelligence sources for both near-real time and post mission. Continue research and development in data analytics and strategic indications and warnings for the air and space domains. Continue performing service-based capability development. Complete efforts advancing systems to deliver multi-INT exploitation on-board and in real-time. Continue software development for automatic detection, characterization, and classification of relative maneuver behaviors between multiple resident space objects.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement:</p>	3.669	1.920	2.444

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
FY 2024 increased compared to FY 2023 by \$0.523 million. Justification for this increase is described in the plans above.				
<p>Title: Game Changing Computing Power</p> <p>Description: Develop and demonstrate computer architectures with greater capacity and sophistication to enable game-changing computing power to the warfighter anywhere, anytime.</p> <p>FY 2023 Plans: Continue demonstrating secure, on-board, simultaneous processing of multi-INT data to correlate and identify surface targets. Initiate integration and testing to utilize pod for additional data sources.</p> <p>FY 2024 Plans: Continue demonstrating secure, on-board, simultaneous processing of multi-INT data to correlate and identify surface targets. Complete integration and testing to utilize pod for additional data sources. Continue development of artificial intelligence/machine learning for data sources with correlation and automated alert to enable human-machine tip and cue on surrogate platform.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024 increased compared to FY 2023 by \$0.601 million. Justification for the increase is described in the plans above.</p>		2.986	2.204	2.805
<p>Title: Assured Communications & Networks</p> <p>Description: Develop and demonstrate secure and reliable communications to ensure the delivery of timely, reliable, and actionable information to warfighters and systems.</p> <p>FY 2023 Plans: Continue development and demonstration for rapid waveform development of multi-mission software defined radio frequency capability. Continue development of wideband high frequency waveform development and testing. Continue to enhance communication link availability prediction for better Command, Control, and Communications planning and simulation. Continue demonstrating a protected, single security domain commercial off-the-shelf device hosting user and asset tracking, machine learning architecture provisioning and innovative aerial port solutions for mobile situational awareness and decision making.</p> <p>FY 2024 Plans: Continue development and demonstration for rapid waveform development of multi-mission software defined radio frequency capability. Continue development of wideband high frequency waveform development and testing. Continue development of enhancing communication link availability prediction for better Command, Control, and Communications planning and simulation. Continue demonstrating a protected, single security domain commercial off-the-shelf device hosting user and asset tracking,</p>		8.640	5.141	6.541

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
machine learning architecture provisioning and innovative aerial port solutions for mobile situational awareness and decision making. FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024 increased compared to FY 2023 by \$1.400 million due to increased emphasis in high-frequency wideband waveform development.			
Accomplishments/Planned Programs Subtotals	30.982	19.396	24.682

	FY 2022	FY 2023
Congressional Add: Program Increase - Assured Communication and Networks FY 2022 Accomplishments: Conduct congressionally directed effort. FY 2023 Plans: Conduct Congressionally directed effort.	9.707	10.000
Congressional Add: Project Increase - Command and Control Capability Development and Deployment FY 2022 Accomplishments: Conduct congressionally directed effort.	4.853	-
Congressional Add: Program Increase - Non-PKI Based Advanced Encryption Modalities FY 2023 Plans: Conduct Congressionally directed efforts.	-	7.000
Congressional Adds Subtotals	14.560	17.000

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

N/A

Remarks

D. Acquisition Strategy

Not applicable

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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
635329: <i>Cyber Battlespace Dev & Demo</i>	-	22.211	19.523	13.097	0.000	13.097	13.502	15.548	15.363	15.926	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Air Force requires the ability to deliver sovereign options in cyberspace through the development and integration of cyber-attack, cyber defense, and cyber support technologies for a strategic capability of cyber dominance. This project develops the ability to deliver cyber-attack capabilities (access, stealth, persistence, intelligence, and weapons delivery), cyber defense capabilities (attack detection, attack attribution, and response automation) and cyber support capabilities (situation awareness and war gaming). This project will also develop 1) a science and engineering capability demonstrating new models of computation, 2) novel approaches for high performance, interactive, net-centric, distributed and embedded computing systems, and 3) the technological tools enabling affordable, large-scale, and complex software-intensive systems.

The National Defense Strategy and Air Force Future Operating Concept established science and technology challenges to enable operational agility (the ability to rapidly generate and shift among multiple solutions for a given challenge) as a way to adapt swiftly to any situation or enemy action. In order to enable multi-domain operations, this project will begin to shape future research and development to focus on cyber technologies in support of multi-domain command and control.

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

	FY 2022	FY 2023	FY 2024
Title: Transformational Technology Development	2.457	0.000	0.000
Description: This effort will initiate new and continue existing Transformational Technology Development efforts. The Transformational Technology Development program will select new projects, in alignment with mission focused areas which include, but are not limited to: Intelligent Planning and Wargaming, Battlespace Awareness, Integrated Base Defense, and Hypersonic Multi-Mission Aircraft. Investments focus on technology development efforts including, but are not limited to technologies to enhance survivability, operability and performance of personnel, sensors, and structures in a threat environment through advances in enterprise-centric information technologies, offensive and defensive cyber operations capabilities, advanced command and control capabilities, and collection, management, analysis, and exploitation of complex data. This investment is overseen by senior representatives from Air and Space Forces who participate in the submission, initial review, and down-selection of Transformational Technology Development proposed efforts. Final selections will be reviewed by the Air Force Deputy Assistant Secretary for Science, Technology, and Engineering before a final recommendation for Congressional approval is made.			
FY 2023 Plans: Activity realigned into Program 0603032F, Future AF Integrated Technology Demos, Project 630320, Air Force Vanguard.			
FY 2024 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
N/A				
FY 2023 to FY 2024 Increase/Decrease Statement: N/A				
<p>Title: Cyber Defense Technologies</p> <p>Description: Develop and demonstrate defensive cyber operations capabilities in a series of experimental technology demonstrations.</p> <p>FY 2023 Plans: Continue development of software capabilities and concept of operations for active guidance and automated processes addressing cyber defense. Continue demonstration of automated cyber survivability using integrated cyber technologies within the operational system laboratory in the context of risk management framework requirements. Continue development of an advanced secure processor hardware capability. Continue development, demonstration, and integration of Project IKE Cyber system (an end-to-end military system and cyber mission execution framework).</p> <p>FY 2024 Plans: Continue development of software capabilities and concept of operations for active guidance and automated processes addressing cyber defense. Continue demonstration of automated cyber survivability using integrated cyber technologies within the operational system laboratory in the context of risk management framework requirements. Continue development of an advanced secure processor hardware capability. Continue development, demonstration, and integration of the Project IKE Cyber system (an end-to-end military system and cyber mission execution framework). Initiate research into dynamic management tailored towards unmanned aerial systems.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024 funding decreased compared to FY 2023 by \$1.579 million due to decreased emphasis in demonstrating automated cyber survivability using integrated cyber technologies.</p>		7.473	4.798	3.219
<p>Title: Cyber Offense Technologies</p> <p>Description: Develop and demonstrate offensive cyber operations capabilities in a series of experimental technology demonstrations.</p> <p>FY 2023 Plans: Continue research towards development of non-kinetic cyber effects against high-impact, critical targets within Areas of Responsibility or Areas of Interest to enable stand-off power projection options that enable cyber-only and coordinated cyber-kinetic target prosecution. Continue development in signal identification capabilities in adverse environments addressing</p>		9.185	14.725	9.878

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>advanced communications signals and networks. Continue investments for the development of a counter small unmanned aerial system open architecture specification to enable interoperability between disparate protection systems. Continue developing a base-threat awareness toolkit. Continue development of processor-agnostic sub-system for golden-image storage, verification, and re-flashing. Continue integration and transition multiple Air Force Research Laboratory and Air Force Lifecycle Management Center counter small unmanned aerial system capabilities. Continue investments for the development of a capability to enable the warfighter access into congested environments as directed by warfighter requirements. Continue investments for the development of cellular testbed with 5G and Internet of Things representative technologies. Initiate demonstration of an initial SIGINT hardware prototype.</p> <p>FY 2024 Plans: Continue the advancement of research towards development of non-kinetic cyber effects against high-impact, critical targets within Areas of Responsibility or Areas of Interest to enable stand-off power projection options that enable cyber-only and coordinated cyber-kinetic target prosecution. Continue development in signal identification capabilities in adverse environments addressing advanced communications signals and networks. Continue investments for the development of a counter small unmanned aerial system open architecture specification to enable interoperability between disparate protection systems. Continue development of a base-threat awareness toolkit. Continue development of processor-agnostic sub-system for golden-image storage, verification, and re-flashing. Continue investments to integrate and transition multiple Air Force Research Laboratory and Air Force Lifecycle Management Center counter small unmanned aerial system capabilities. Decrease investments for the development of a capability to enable the warfighter access into congested environments as directed by warfighter requirements. Continue investments for the development of cellular testbed with 5G and Internet of Things representative technologies. Complete demonstration of an initial SIGINT hardware prototype.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024 decreased compared to FY 2023 by \$4.847 million due to decreased emphasis in processor-agnostic systems and decreased emphasis in counter small unmanned aerial system tools.</p>			
Accomplishments/Planned Programs Subtotals	19.115	19.523	13.097

	FY 2022	FY 2023
Congressional Add: Project Increase - Development of Cybersecurity Methodologies	2.902	-
FY 2022 Accomplishments: Conduct congressionally directed effort.		
Congressional Add: Project Increase - Skydome Trusted Smart-X Experimentation Environment	0.194	-
FY 2022 Accomplishments: Conduct congressionally directed effort.		
Congressional Adds Subtotals	3.096	-

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

N/A

Remarks

D. Acquisition Strategy

Not applicable