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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force **Date:** April 2022

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0808737F I CVV <i>Integrated Prevention</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	9.315	0.000	9.315	9.342	8.307	7.272	7.286	Continuing	Continuing
648737: <i>Sexual Assault Prvntion Study</i>	-	0.000	0.000	9.315	0.000	9.315	9.342	8.307	7.272	7.286	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 4, PE 0808737F, project 648737, ORION Continuous Capability & Case Management Framework Development, is a new start.
 This program, BA 4, PE 0808737F, project 648737, ISDVP Research & Development, is a new start.

A. Mission Description and Budget Item Justification

Following completion of a Presidentially-directed Independent Review Committee (IRC) on Sexual Assaults for the Department of Defense, the Secretary of Defense (SECDEF) directed the implementation of multiple IRC recommendations. The Integrated Prevention PE contains two programs in support of those recommendations: The Air Force Office of Special Investigations (OSI), Records, Investigations and Operations Network (ORION) program and the Interpersonal Self-Directed Violence (ISDV) Prevention program.

Air Force Office of Special Investigations (OSI), Records, Investigations and Operations Network (ORION):

The Department of the Air Force (DAF) Office of Special Investigations (OSI) is DAF's sole felony-level criminal investigative agency mandated to investigate criminal offenses, to include sexual offenses and interpersonal violence. IRC recommendations C2, C3, C4, 1.8, 2.6a, 3.1, and 3.3a, directed the DAF to increase its ability to collect, analyze, and integrate data related to sexual offenses and interpersonal violence to inform and guide prevention and response. The DAF will develop and deploy the OSI Investigations, Operations, and Records Network (ORION) information system as to satisfy SECDEF requirements.

In tandem with the context above, another key driver for development of ORION is the DAF's requirement to identify a central case management system solution to allow for more effective oversight of and more efficient execution of the DAF's criminal indexing process.

ORION will be a cloud-based, next-generation case management system used to document, manage, store, and report criminal investigative and counterintelligence information involving violations of the Uniform Code of Military Justice and the United States Code. ORION will serve as OSI's central mission application capable of ensuring sexual assaults, intimate partner violence, violent extremism, service-member deaths, and dozens of other crimes are properly investigated and recorded. ORION will be used by over 3,000 OSI personnel including nearly 2,000 federally-credentialed Special Agents at OSI's 300+ global operating locations.

ORION will enable the DAF to modernize criminal indexing processes both operationally and technologically. Operationally, ORION will reduce redundancy, streamline processes, encourage standardization, and decrease administrative burden. The DAF is exploring options to use ORION to replace other systems and enable data transfer to other stakeholders with the goal to increase integration and productivity and avoid duplicative data entry. ORION could also be leveraged to be placed on

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one or more Special Access Programs (SAP) networks to become a system of record for OSI investigative and security support to DAF SAP programs. Technologically, ORION leverages the affordability, scalability, security, and services provided by cloud computing. Additionally, ORION will be mobile-ready, enabling agents to securely access and document investigative data from mobile devices whenever and wherever needed, thereby increasing efficiency and reducing delays. Lastly, ORION will be built on a low-code/no-code enterprise platform which enables the rapid development, deployment, and sustainment of capability.

The DAF is considering options to leverage ORION and its enterprise low-code/no-code platform for other DAF case management and/or business process management requirements. Such a platform, operated and sustained at the enterprise level, has potential to yield cost savings, operational enhancements, and technical efficiencies as well as reduce DAF overhead. With ORION serving as the initial application, the case management platform could promote the expedited development, deployment, and sustainment of future case management systems at economies of scale.

Air Force Integrated Resilience Office (A1Z), Interpersonal Self-Directed Violence Prevention:

The Department of the Air Force (DAF) Integrated Resilience Directorate (A1Z) is the Air Force's lead agency for the research, development, and analysis of ISDV prevention and resilience programming across The Force. The IRC recommended multiple initiatives to help the Services research, develop, and assess interpersonal and self-directed violence (ISDV) prevention strategies. ISDV encompasses sexual assault, domestic violence, suicide, and resilience. IRC recommendations 2.3, 2.4, 2.6, and 3.5 directed the DAF to implement prevention strategies at organizational and community levels through the modernization of prevention education, training, program evaluation, and improved processes for data collection and analysis. The DAF will execute the IRC's recommendations in support of initiatives to include, but not limited to:

- The Tech-based Machine Learning Initiative - A state-of-the-art DoD prevention research capability that utilizes machine learning algorithms to analyze qualitative data to identify trends that lead to ISDV.
- The Community Prevention Platform (CPP) - A web-based software system that will maintain Installation and Major Command community action plans and facilitate DAF Headquarters ability to track and assess plans.
- The Peer-Network Resilience Training Program (PRTP) - An initiative to analyze and modernize current resilience training processes to more effectively reflect today's generation of Service members.
- The Project Proficiency-based Sexual Assault Training (PSAT) - This initiative will similarly update and expand the current Air Force sexual assault training by implementing tailored-training based on subject knowledge as well as long-term training-competency tracking for Airmen/Guardians over their career cycle.
- The Sexual Assault Prevention Response Virtual Reality (SAPR VR) - This initiative will further enhance training initiatives by implementing cutting-edge Virtual Reality capability to more effectively enable Airmen and Guardians to recognize and prevent sexual assault.

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The DAF is committed to implementing the Commission's recommendations to more effectively identify behavioral and cultural contributors to ISDV, educate/train Airmen and Guardians to facilitate ISDV prevention, and transparently document and track Installation-level strategies to facilitate evaluation.

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

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	9.315	0.000	9.315
Total Adjustments	0.000	0.000	9.315	0.000	9.315
• 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	0.000	0.000			
• Other Adjustments	0.000	0.000	9.315	0.000	9.315

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: ORION Continuous Capability & Case Management Framework Development	-	0.000	4.140	0.000	4.140
Description: ORION will be developed, optimized, and enhanced through the completion of iterative software development cycles using an agile software development methodology. Development will focus on building functionality and capability for ORION. Development activities include licensing, system design and architecture, requirements analysis, product building, planning and testing, data migration as required, systems integration, and the establishment and incorporation of various cloud services. Additionally, development includes various services and program support activities for ORION and enabling a larger Air Force Case Management Platform.					
FY 2022 Plans:					

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>N/A</p> <p>FY 2023 Base Plans:</p> <ul style="list-style-type: none"> - Will initiate development activities for ORION - Will conduct iterative software development and integration of the ORION application - Will optimize, test and complete ORION cloud implementation - May establish an Air Force Case Management Framework - Will establish, test, and complete new and existing ORION integrations with other OSI, Air Force, DoD, and criminal justice systems to increase data sharing and mission effectiveness. - Will ensure robust ORION system security and support the Risk Management Framework (RMF) through continuous monitoring activities - Will support 24/7 operations for global ORION user community through Help Desk operations, functional expertise, technical support, and other user needs - Will operate, manage, and maintain ORION application and ORION cloud environment - Will deploy fixes to address new and existing software defects and user-identified problems - Will develop integrated ORION Business Intelligence (BI) functionality to enhance reporting capability - Will initiate discovery planning and development of classified components of ORION - Will establish ORION in IL-6 classified cloud environment <p>FY 2023 OCO Plans:</p> <p>N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p> <p>This is a New Start, and was not resourced in FY22.</p>						
<p>Title: ISDVP Research & Development</p> <p>Description: The DAF will conduct numerous research and development initiatives to more effectively determine trends in ISDV events, precursors, and preventative factors. These initiatives include modernizing prevention education and training programs and evaluating their effectiveness; developing software solutions to streamline, modernize, and improve community-level prevention strategies; and leveraging machine learning to determine trends that engender ISDV activities. All initiatives address IRC recommendations and will be designed to improve the overall health and well-being of Total Force Airmen and Guardians.</p> <p>FY 2022 Plans:</p>		-	0.000	5.175	0.000	5.175

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
N/A					
<i>FY 2023 Base Plans:</i> - Will identify software solutions and develop minimum viable capability to store and track community action plans - Will conduct business process mapping initiatives to refine requirements and plan interface coordination - Will integrate data push/pull mechanisms with software programs - Will develop key markers of success for prevention program evaluation and modernization efforts - Will evaluate existing ISDV prevention education/training programs and develop a prioritized modernization strategy - Will develop, test, and deploy modernized ISDV prevention education/training programs leveraging advanced training techniques, such as virtual reality - Will develop and pilot career-long evaluation plans to track effectiveness - Will develop, test, and refine Machine Learning models for to conduct trend analysis on years of Airmen and Guardians' climate surveys and other feedback mechanisms <i>FY 2023 OCO Plans:</i> N/A <i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> This is a New Start, and was not resourced in FY22.					
Accomplishments/Planned Programs Subtotals	-	0.000	9.315	0.000	9.315

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

Remarks

E. Acquisition Strategy
ORION:

ORION will adopt an agile, phased approach to application development and deployment. ORION development will be a collaborative process to include a cadre of experienced Special Agents, functional experts, and software developers. In addition to managing OSI's law enforcement-related criminal investigations information, ORION will also manage counterintelligence investigations and operations. Ultimately, the classified and unclassified versions of ORION will share limited data through

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an automated, bi-directional, cross-domain solution to ensure users have ready access to both criminal and counterintelligence information. Once complete, ORION will fully subsume OSI's current management systems and serve as OSI's investigative system of record.

In tandem with ORION development, the DAF is considering options to leverage this program to enable a larger DAF Case Management Platform. This platform would provide DAF customers requiring similar case management capabilities with the ability to share and modify system components and workflows, establish best practices, benefit from economies of scale, share/reduce costs, implement uniformity across systems, and decrease time required to deliver capability to end-users. This platform would also lessen overall administrative burdens associated with Clinger-Cohen Act compliance, the Business Capability Acquisition Cycle (BCAC), and program management.

ISDV Prevention:

This effort explores numerous initiatives to ultimately prevent ISDV. The DAF will execute agile processes within all initiatives. Software solutions will develop and deploy minimum viable capability early and continue to refine based on prioritized need. Research and analysis initiatives will seek industry best practices to implement novel technological solutions to these tough problem sets.

Contract strategies will require multiple approaches with a focus on best value and rapid execution. Efforts may also leverage existing AFRL SBIRs and Air University collaborations with Subject Matter Experts (SMEs) and nationally recognized experts from Industry and Academia.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force **Date:** April 2022

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0808737F / CVV Integrated Prevention	Project (Number/Name) 648737 / Sexual Assault Prvntion Study
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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
ORION: Application Development	C/CPAF	TBD : TBD	-	0.000		0.000		2.150	Feb 2023	-		2.150	Continuing	Continuing	-
ORION: Cloud Hosting	MIPR	TBD : TBD	-	0.000		0.000		0.385	Dec 2022	-		0.385	Continuing	Continuing	-
ORION: Cloud Implementation	MIPR	TBD : TBD	-	0.000		0.000		0.505	Dec 2022	-		0.505	Continuing	Continuing	-
ISDVP: Application Development	C/FFP	TBD : TBD	-	-		-		0.624	Mar 2023	-		0.624	Continuing	Continuing	-
ISDVP: Edu/Training Modernization	C/FFP	TBD : TBD	-	-		-		0.400	Mar 2023	-		0.400	Continuing	Continuing	-
ISDVP: Trend Analysis	C/FFP	TBD : TBD	-	-		-		0.500	Mar 2023	-		0.500	Continuing	Continuing	-
ISDVP: Curriculum Development/ Implementation/Evaluation	C/FFP	TBD : TBD	-	-		-		3.089	Mar 2023	-		3.089	Continuing	Continuing	-
Subtotal			-	0.000		0.000		7.653		-		7.653	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
ORION: Cybersecurity	C/CPAF	TBD : TBD	-	0.000		0.000		0.205	Dec 2022	-		0.205	Continuing	Continuing	-
Subtotal			-	0.000		0.000		0.205		-		0.205	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
ORION: Cloud Management	C/CPAF	TBD : TBD	-	0.000		0.000		0.358	Dec 2022	-		0.358	Continuing	Continuing	-
ORION: Application Management	C/CPAF	TBD : TBD	-	0.000		0.000		0.312	Feb 2023	-		0.312	Continuing	Continuing	-
ORION: Program Support	MIPR	AFLCMC/HI : Gunter AFB, AL	-	0.000		0.000		0.225	Dec 2022	-		0.225	Continuing	Continuing	-

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force **Date:** April 2022

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0808737F / CVV Integrated Prevention	Project (Number/Name) 648737 / Sexual Assault Prvntion Study
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>ORION Capability Development Requirements</i>				
Application & Cloud Management	2	2023	4	2027
Cybersecurity Implementation & Maintenance	2	2023	4	2027
Establish IL6 Cloud Environment	2	2023	4	2023
Initiate ORION-Classified Development	2	2023	4	2025
Further Development of ORION Capabilities	2	2023	4	2025
ORION Iterative Sustainment Activities	1	2026	4	2027
Field ORION Classified	3	2024	2	2025
Cross Domain Solution Development	2	2025	4	2025
<i>ISDVP Research & Development</i>				
Pre-Acquisition activities	1	2023	2	2023
Community Action Plan System Development, Test, & Deployment	2	2023	1	2025
Education/Training Modernization Development, Test, & Implementation	1	2023	4	2027
Trend Analysis	1	2023	4	2025
Curriculum Development/Implementation, & Evaluation	1	2023	4	2027