Department of Defense Fiscal Year (FY) 2024 Budget Estimates

March 2023



Army

Justification Book Volume 3c of 3

Research, Development, Test & Evaluation, Army

RDT&E – Volume II, Budget Activity 5C

UNCLASSIFIED

Army • Budget Estimates FY 2024 • RDT&E Program

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UNCLASSIFIED RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY APPROPRIATION LANGUAGE

For expenses necessary for basic and applied scientific research, development, test and evaluation, including maintenance, rehabilitation, lease, and operation of facilities and equipment, \$15,772,215,000.00 to remain available for obligation until September 30, 2025.

The FY 2024 Overseas Operations accounted for in the base budget are as follows:

In-theater and in-CONUS expenses that remain after combat operations cease and have been previously funded in Overseas Operations \$3,166,000.00.

COST STATEMENT

The following Justification Books were prepared at a cost of \$365,839.52: Aircraft (ACFT), Missiles (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 – Tactical & Support Vehicles, Other Procurement Army (OPA) 2 – Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 5C, Budget Activity 5D, Budget Activity 6, Budget Activity 7, and Budget Activity 8.

UNCLASSIFIED FY 2024 RDT&E, ARMY PROGRAM ELEMENT DESCRIPTIVE SUMMARIES Introduction and Explanation of Contents

1. **General.** The purpose of this document is to provide summary information concerning the Research, Development, Test and Evaluation, Army program. The descriptive summaries are comprised of R-2 (Army RDT&E Budget Item Justification – program element level), R-2A (Army RDT&E Budget Item Justification – project level), R-3 (Army RDT&E Cost Analysis), R-4 (Schedule Profile Detail) and R-5 (Termination Liability Funding for MDAPs) Exhibits, which provide narrative information on all RDT&E program elements and projects through FY 2024.

2. Relationship of the FY 2024 Budget Submitted to Congress to the FY 2023 Budget Submitted to Congress. This paragraph provides a list of program elements/projects that are major new starts, restructures, developmental transitions, and terminated programs. Explanations for these changes can be found in the narrative sections of the Program Element R-2A Exhibits.

Budget Activity	OSDPE / Project	Project Title
02	0602146A / AM6	Modular RF Communications Technology
02	0602148A / CI4	Adaptive Avionics Technologies
02	0602141A / CIC	Fire Control Lethality Technology
02	0602182A / DA8	Quantum PNT & Radio Frequency Sensing
02	0602182A / DB4	Enabling Long Standoff 3D (ELS3D) Tech
02	0602002A / DC6	Sci & Analysis for Autonomous Sys & Counter-Auton
02	0602183A / DE2	Airborne Threat Defeat
02	0602150A / DE3	Adv Beam Control Component Development for C-CM
02	0602182A / DE6	Understanding Environment as a Threat Tech
03	0603044A / CW1	Technical-SAVVY Soldier Advanced Research
03	0603116A / DB2	Future Armaments Scalable Technologies
03	0603042A / DB5	Enabling Long Standoff 3D (ELS3D) Adv Tech
03	0603463A / DB6	Pathfinder 3D Advanced Technology
04	0604103A / DG4	NAVWAR SA
04	0603779A / DH6	Installation Resilience
05	0604802A / DC9	30mm MMPA M-SHORAD INC 3

New Start Programs:

05	0604818A / DD1	Unified Network Technology Trans & Integ (UNTTI)
05	0605206A / DG3	CI and HUMINT Equipment Program-Army (CIHEP-A)
05	0605013A / DH1	Operational Medicine Information System
05	0605216A / EFA	Joint Target Integrated Cmd & Coordination Suite
05	0605036A / EQ5	Combating Weapons of Mass Destruction (CWMD)
05	0605049A / XT4	Advanced Threat Detection System (ATDS)
06	0605601A / WD1	West Desert Test Center
07	0203735A / DD4	AMPV Improvement Program
07	0607315A / DD5	Army Power Systems Modernization

Program Element/Project Restructures:

<u>Budget</u>		
<u>Activity</u>	<u>Old OSDPE / Project: Title</u>	<u>New OSDPE / Project</u>
02	0602145A / CU5: Next Generation Combat Vehicle Technolog	0602141A / CIA
02	0602181A / CM7: All Domain Convergence Applied Research	0602141A / CIB
02	0602143A / AZ9: Soldier Lethality Technology	0602143A / BB4
02	0602143A / BBG: Soldier Lethality Technology	0602143A / BC2
02	0602145A / BG8: Next Generation Combat Vehicle Technology	0602144A / DG1
02	0602180A / CL7: Artificial Intelligence and Machine Learning Technologies	0602180A / DE8
03	0603040A / CL6: Artificial Intelligence and Machine Learning Technologies	0603040A / DE9
03	0603463A / AR6: Network C3I Advanced Technology	0603042A / DE7
03	0603041A / CM8: All Domain Convergence Advanced Technology	0603116A / CID
03	0603462A / BH6: Next Generation Combat Vehicle Advanced Technology	0603118A / BD9
03	0603462A / BG9: Next Generation Combat Vehicle Advanced Technology	0603119A / DG2
03	0603464A / CZ8: Long Range Precision Fires Advanced Technology	0603464A / AF2
04	0604036A / BY9: Multi-Domain Sensing System (MDSS) Adv Dev	0604036A / DD6
04	0604036A / BY9: Multi-Domain Sensing System (MDSS) Adv Dev	0604036A / DD6

05	0604818A / EJ5: Family of Heavy Vehicles	0604622A / DG7
05	0605224A / CK4: Long-Range Hypersonic Weapon	0604182A / HX2
05	0605224A / CK4: All Up Round and Canister (AUR+C)	0604182A / HX2
05	0605457A / S40: Common Hypersonic Glide Body (CHGB)	0604182A / HX2
05	0605601A / F30: Ground Support Equipment (GSE)	0604182A / HX2
05	0203744A / EB6: HX6: Test and Evaluation	0604182A / HX2
05	0605224A / CK4: Multi-Domain Intelligence	0604805A / 593
05	0605224A / CK4: Multi-Domain Intelligence	0605224A / DD8
05	0605457A / S40: Multi-Domain Intelligence	0605224A / DD9
05	0605601A / F30: Army Integrated Air and Missile Defense (AIAMD)	0605457A / SS1
06	0605601A / F30: Army Integrated Air and Missile Defense (AIAMD)	0605702A / 128
07	0203744A / EB6: Army Test Ranges and Facilities	0305219A / MQ2

Program Terminations (including transfers to Procurement and Sustainment):

	-	
<u>Budget</u> <u>Activity</u>	<u>OSDPE / Project</u>	<u>Project Title</u>
03	0603465A / AI8	Future Vertical Lift Advanced Technology / Alternative Concept Engine Advanced Technology
03	0603463A / AV4	Network C3I Advanced Technology / Foundational S&T for Network C3I Advanced Tech
04	0305251A / DD3	Cyberspace Operations Forces and Force Support / Joint Cyber Warfighting Architecture Cyber Train
04	0604115A / AX8	Technology Maturation Initiatives / Adv Leth and Accuracy Sys for Med Calber (ALAS-MC)
04	0604115A / AX9	Technology Maturation Initiatives / Adv Mobility Experimental Prototype Adv Tech
05	0604802A / CE3	Weapons and Munitions - Eng Dev / Precision Munition (Sniper)
05	0604802A / EU4	Weapons and Munitions - Eng Dev / 40mm HV Improved High Explosive Dual Purpose
05	0604804A / FG4	Logistics and Engineer Equipment - Eng Dev / Ultra-Lightweight Camouflage Net System (ULCANS)
05	0604822A / DV6	General Fund Enterprise Business System (GFEBS) / General Fund Enterprise Business System
05	0604854A / HB6	Artillery Systems - EMD / Mobile 155MM Howitzer
05	0605013A / 184	Information Technology Development / Installation Support Modules
07	0305204A / 11A	Tactical Unmanned Aerial Vehicles / Advanced Payload Develop & Spt

	07	0305206A / EH2	Airborne Reconnaissance Systems / EMARSS ADV DEV
ſ	07	0305206A / EH3	Airborne Reconnaissance Systems / EMARSS Payloads ADV DEV
ſ	08	0608041A / DD2	Defensive CYBER - Software Prototype Development / Joint Cyber Warfighting Architecture Software

3. Classification: This document contains no classified data. Appropriately cleared individuals can obtain further information on Classified/Special Access Programs by contacting the Department of the Army.

Department of Defense FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment	FY 2024 Request
Research, Development, Test and Evaluation, Army	14,660,654	17,142,121	9,100	17,151,221	15,775,381
Total Research, Development, Test, & Evaluation	14,660,654	17,142,121	9,100	17,151,221	15,775,381

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of Defense FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment	FY 2024 Request
Summary Recap of Budget Activities					
Basic Research	590,078	635,395		635,395	497,455
Applied Research	1,521,472	1,823,330		1,823,330	948,358
Advanced Technology Development	2,145,309	2,532,690		2,532,690	1,455,986
Advanced Component Development & Prototypes	3,799,417	4,631,111	6,000	4,637,111	4,420,315
System Development & Demonstration	3,178,005	4,317,752	600	4,318,352	5,639,364
Management Support	1,901,655	1,820,502		1,820,502	1,624,585
Operational Systems Development	1,416,677	1,286,510	2,500	1,289,010	1,105,748
Software And Digital Technology Pilot Programs	108,041	94,831		94,831	83,570
Total Research, Development, Test, & Evaluation	14,660,654	17,142,121	9,100	17,151,221	15,775,381
Summary Recap of FYDP Programs					
General Purpose Forces	559,789	372,120		372,120	404,375
Intelligence and Communications	262,480	248,995		248,995	212,694
Research and Development	13,733,825	16,382,072	9,100	16,391,172	15,055,009
Central Supply and Maintenance	101,466	132,270		132,270	75,317
Administration and Associated Activities	101				
Classified Programs	2,993	6,664		6,664	27,986
Total Research, Development, Test, & Evaluation	14,660,654	17,142,121	9,100	17,151,221	15,775,381

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment	FY 2024 Request
Summary Recap of Budget Activities					
Basic Research	590,078	635,395		635,395	497,455
Applied Research	1,521,472	1,823,330		1,823,330	948,358
Advanced Technology Development	2,145,309	2,532,690		2,532,690	1,455,986
Advanced Component Development & Prototypes	3,799,417	4,631,111	6,000	4,637,111	4,420,315
System Development & Demonstration	3,178,005	4,317,752	600	4,318,352	5,639,364
Management Support	1,901,655	1,820,502		1,820,502	1,624,585
Operational Systems Development	1,416,677	1,286,510	2,500	1,289,010	1,105,748
Software And Digital Technology Pilot Programs	108,041	94,831		94,831	83,570
Total Research, Development, Test, & Evaluation	14,660,654	17,142,121	9,100	17,151,221	15,775,381
Summary Recap of FYDP Programs					
General Purpose Forces	559 , 789	372,120		372,120	404,375
Intelligence and Communications	262,480	248,995		248,995	212,694
Research and Development	13,733,825	16,382,072	9,100	16,391,172	15,055,009
Central Supply and Maintenance	101,466	132,270		132,270	75,317
Administration and Associated Activities	101				·
Classified Programs	2,993	6,664		6,664	27,986
Total Research, Development, Test, & Evaluation	14,660,654	17,142,121	9,100	17,151,221	15,775,381

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line <u>No</u>	Program Element <u>Number</u>	Item	Act	<u>Se</u> <u>c</u>	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
1	0601102A	Defense Research Sciences	01	U	358,521	391,642		391,642
2	0601103A	University Research Initiatives	01	U	88,797	107,160		107,160
3	0601104A	University and Industry Research Centers	01	U	122,521	121,160		121,160
4	0601121A	Cyber Collaborative Research Alliance	01	U	5,067	5,355		5,355
5	0601601A	Artificial Intelligence and Machine Learning Basic Research	01	U	15,172	10,078		10,078
	Basic Resear	rch			590,078	635,395		635,395
6	0602002A	Army Agile Innovation and Development-Applied Research	02	U		1,000		1,000
7	0602115A	Biomedical Technology	02	U	11,489			
8	0602134A	Counter Improvised-Threat Advanced Studies	02	U	1,904	6,192		6,192
9	0602141A	Lethality Technology	02	U	89,285	194,717		194,717
10	0602142A	Army Applied Research	02	U	28,654	27,833		27,833
11	0602143A	Soldier Lethality Technology	02	U	201,221	253,539		253,539
12	0602144A	Ground Technology	02	U	214,489	264,523		264,523
13	0602145A	Next Generation Combat Vehicle Technology	02	U	239,284	277,445		277,445
14	0602146A	Network C3I Technology	02	U	161,759	212,115		212,115
15	0602147A	Long Range Precision Fires Technology	02	U	107,454	128,529		128,529
16	0602148A	Future Verticle Lift Technology	02	U	130,108	104,348		104,348
17	0602150A	Air and Missile Defense Technology	02	U	92,926	88,768		88,768
18	0602180A	Artificial Intelligence and Machine Learning Technologies	02	U	14,486	16,068		16,068

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

	Program				
Line	Element			Se	FY 2024
No	Number	Item	Act	≗_	Request
1	0601102A	Defense Research Sciences	01	U	296,670
2	0601103A	University Research Initiatives	01	U	75,672
3	0601104A	University and Industry Research Centers	01	U	108,946
4	0601121A	Cyber Collaborative Research Alliance	01	U	5,459
5	0601601A	Artificial Intelligence and Machine Learning Basic Research	0.1		
	Basic Reseau		01	U	10,708
					497,455
6	0602002A	Army Agile Innovation and Development-Applied Research	02	U	5,613
7	0602115A	Biomedical Technology	02	U	
8	0602134A	Counter Improvised-Threat Advanced Studies	02	U	6,242
9	0602141A	Lethality Technology	02	U	85,578
10	0602142A	Army Applied Research	02	U	34,572
11	0602143A	Soldier Lethality Technology	02	U	104,470
12	0602144A	Ground Technology	02	U	60,005
13	0602145A	Next Generation Combat Vehicle Technology	02	U	166,500
14	0602146A	Network C3I Technology	02	U	81,618
15	0602147A	Long Range Precision Fires Technology	02	U	34,683
16	0602148A	Future Verticle Lift Technology	02	U	73,844
17	0602150A	Air and Missile Defense Technology	02	U	33,301
18	0602180A	Artificial Intelligence and Machine Learning Technologies	02	U	24,142

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line <u>No</u>	Program Element Number	Item	Act	Se c	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
19	0602181A	All Domain Convergence Applied Research	02	U	25,019	27,360		27,360
20	0602182A	C3I Applied Research	02	U	11,954	27,868		27,868
21	0602183A	Air Platform Applied Research	02	U	6,356	41,588		41,588
22	0602184A	Soldier Applied Research	02	U	10,660	15,716		15,716
23	0602213A	C3I Applied Cyber	02	U	12,119	13,605		13,605
24	0602386A	Biotechnology for Materials - Applied Research	02	U	19,889	21,811		21,811
25	0602785A	Manpower/Personnel/Training Technology	02	U	18,414	19,649		19,649
26	0602787A	Medical Technology	02	U	124,002	80,656		80,656
	Applied Rese	earch			1,521,472	1,823,330		1,823,330
27	0603002A	Medical Advanced Technology	03	U	147,287	31,588		31,588
28	0603007A	Manpower, Personnel and Training Advanced Technology	03	U	13,865	15,598		15,598
29	0603025A	Army Agile Innovation and Demonstration Artificial Intelligence and Machine Learning Advanced	03	U	21,420	20,900		20,900
30	0603040A	Technologies	03	U	876	6,395		6,395
31	0603041A	All Domain Convergence Advanced Technology	03	U	20,095	45,377		45,377
32	0603042A	C3I Advanced Technology	03	U	3,036	12,716		12,716
33	0603043A	Air Platform Advanced Technology	03	U	727	17,946		17,946
34	0603044A	Soldier Advanced Technology	03	U	858	479		479
35	0603115A	Medical Development	03	U	25,540			
36	0603116A	Lethality Advanced Technology	03	U	7,772	9,796		9,796
37	0603117A	Army Advanced Technology Development	03	U	76,815	134,874		134,874

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Program Line Element FY 2024 Se No Number Item Act С Request 19 0602181A All Domain Convergence Applied Research 02 U 14,297 20 0602182A C3I Applied Research 02 U 30,659 21 0602183A Air Platform Applied Research 02 U 48,163 22 0602184A Soldier Applied Research 02 U 18,986 23 0602213A C3I Applied Cyber 02 U 22,714 24 0602386A Biotechnology for Materials - Applied Research 02 U 16,736 25 0602785A Manpower/Personnel/Training Technology 02 U 19,969 26 0602787A Medical Technology 02 U 66,266 Applied Research 948,358 27 0603002A Medical Advanced Technology 03 U 4,147 28 0603007A Manpower, Personnel and Training Advanced Technology 03 U 16,316 29 0603025A Army Agile Innovation and Demonstration 03 U 23,156 Artificial Intelligence and Machine Learning Advanced 30 0603040A Technologies 03 U 13,187 31 0603041A All Domain Convergence Advanced Technology 03 U 33,332 32 0603042A C3I Advanced Technology 03 U 19,225 33 0603043A Air Platform Advanced Technology 03 14,165 U 34 0603044A Soldier Advanced Technology 03 U 1,214 35 0603115A Medical Development 03 U 36 0603116A Lethality Advanced Technology 03 U 20,582 37 0603117A Army Advanced Technology Development 03 U 136,280

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line <u>No</u>	Program Element <u>Number</u>	Item	Act	<u>Se</u>	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
38	0603118A	Soldier Lethality Advanced Technology	03	U	148,458	154,639		154,639
39	0603119A	Ground Advanced Technology	03	U	281,637	415,846		415,846
40	0603134A	Counter Improvised-Threat Simulation	03	U	23,920	21,486		21,486
41	0603386A	Biotechnology for Materials - Advanced Research	03	U	51,774	56,853		56,853
42	0603457A	C3I Cyber Advanced Development	03	U	61,426	41,354		41,354
43	0603461A	High Performance Computing Modernization Program	03	U	222,220	301,964		301,964
44	0603462A	Next Generation Combat Vehicle Advanced Technology	03	U	294,491	471,434		471,434
45	0603463A	Network C3I Advanced Technology	03	U	205,576	177,917		177,917
46	0603464A	Long Range Precision Fires Advanced Technology	03	U	138,482	202,830		202,830
47	0603465A	Future Vertical Lift Advanced Technology	03	U	255,323	272,551		272,551
48	0603466A	Air and Missile Defense Advanced Technology	03	U	125,027	99,147		99,147
49	0603920A	Humanitarian Demining	03	U	18,684	21,000		21,000
	Advanced Tec	chnology Development			2,145,309	2,532,690		2,532,690
51	0603305A	Army Missle Defense Systems Integration	04	U	56,579	118,001		118,001
52	0603308A	Army Space Systems Integration	04	U	25,401	30,945		30,945
53	0603327A	Air and Missile Defense Systems Engineering	04	U	15,000	15,000		15,000
54	0603619A	Landmine Warfare and Barrier - Adv Dev	04	U	44,933	55,953	6,000	61,953
55	0603639A	Tank and Medium Caliber Ammunition	04	U	61,641	51,488		51,488
56	0603645A	Armored System Modernization - Adv Dev	04	U	154,010	135,122		135,122
57	0603747A	Soldier Support and Survivability	04	U	2,791	4,060		4,060
58	0603766A	Tactical Electronic Surveillance System - Adv Dev	04	U	113,365	72,314		72,314

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Program Line Element FY 2024 Se No Number Item Act c Request 38 0603118A Soldier Lethality Advanced Technology 03 U 102,778 39 0603119A Ground Advanced Technology 03 U 40,597 40 0603134A Counter Improvised-Threat Simulation 03 U 21,672 41 0603386A Biotechnology for Materials - Advanced Research 03 U 59,871 42 0603457A C3I Cyber Advanced Development 03 U 28,847 43 0603461A High Performance Computing Modernization Program 03 U 255,772 44 0603462A Next Generation Combat Vehicle Advanced Technology 03 U 217,394 45 0603463A Network C3I Advanced Technology 03 U 105,549 46 0603464A Long Range Precision Fires Advanced Technology 03 U 153,024 47 0603465A Future Vertical Lift Advanced Technology 03 U 158,795 48 0603466A Air and Missile Defense Advanced Technology 03 U 21,015 49 0603920A Humanitarian Demining 03 U 9,068 Advanced Technology Development 1,455,986 51 0603305A Army Missle Defense Systems Integration 04 U 12,904 52 0603308A Army Space Systems Integration 04 U 19,120 53 0603327A Air and Missile Defense Systems Engineering 04 U 54 0603619A Landmine Warfare and Barrier - Adv Dev 04 U 47,537 55 0603639A Tank and Medium Caliber Ammunition U 04 91,323 56 0603645A Armored System Modernization - Adv Dev 04 U 43,026 57 0603747A Soldier Support and Survivability 04 U 3,550 58 0603766A Tactical Electronic Surveillance System - Adv Dev 04 U 65,567

Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line	Program Element			Se	FY 2022	FY 2023 Less Supplementals	FY 2023 Supplementals	
No	Number	Item	Act	<u>c</u>	Actuals	Enactment	Enactment [*]	FY 2023 Total Enactment
59	0603774A	Night Vision Systems Advanced Development	04	U	62,534	97,478		97,478
60	0603779A	Environmental Quality Technology - Dem/Val	04	U	22,491	76,749		76,749
61	0603790A	NATO Research and Development	04	U	3,639	3,805		3,805
62	0603801A	Aviation - Adv Dev	04	U	1,138,457	1,157,472		1,157,472
63	0603804A	Logistics and Engineer Equipment - Adv Dev	04	U	10,797	24,638		24,638
64	0603807A	Medical Systems - Adv Dev	04	U	27,768	5,598		5,598
65	0603827A	Soldier Systems - Advanced Development	04	U	25,288	23,444		23,444
66	0604017A	Robotics Development	04	U	78,309	26,555		26,555
67	0604019A	Expanded Mission Area Missile (EMAM)	04	U	26,855	258,320		258,320
68	0604020A	Cross Functional Team (CFT) Advanced Development & Prototyping	g 04	U		77,000		77,000
69	0604035A	Low Earth Orbit (LEO) Satellite Capability	04	U	18,922	35,509		35,509
70	0604036A	Multi-Domain Sensing System (MDSS) Adv Dev	04	U	50,548	47,915		47,915
71	0604037A	Tactical Intel Targeting Access Node (TITAN) Adv Dev	04	U	28,347	863		863
72	0604100A	Analysis Of Alternatives	04	U	9,723	10,659		10,659
73	0604101A	Small Unmanned Aerial Vehicle (SUAV) (6.4)	04	U	892	1,425		1,425
74	0604103A	Electronic Warfare Planning and Management Tool (EWPMT)	04	U				
75	0604113A	Future Tactical Unmanned Aircraft System (FTUAS)	04	U	76,349	134,719		134,719
76	0604114A	Lower Tier Air Missile Defense (LTAMD) Sensor	04	U	408,766	380,147		380,147
77	0604115A	Technology Maturation Initiatives	04	U .	127,725	219,742		219,742
78	0604117A	Maneuver - Short Range Air Defense (M-SHORAD)	04	U	37,939	274,838		274,838

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line	Program Element				
No	Number	Item	Act	Se c	FY 2024 Request
59	0603774A	Night Vision Systems Advanced Development	04	U U	73,675
60	0603779A	Environmental Quality Technology - Dem/Val	04	U	31,720
61	0603790A	NATO Research and Development	04	U	4,143
62	0603801A	Aviation - Adv Dev	04	U	1,502,160
63	0603804A	Logistics and Engineer Equipment - Adv Dev	04	U	7,604
64	0603807A	Medical Systems - Adv Dev	04	U	1,602
65	0603827A	Soldier Systems - Advanced Development	04	U	27,681
66	0604017A	Robotics Development	04	U	3,024
67	0604019A	Expanded Mission Area Missile (EMAM)	04	U	97,018
68	0604020A	Cross Functional Team (CFT) Advanced Development & Prototyping	g 04	U	117,557
69	0604035A	Low Earth Orbit (LEO) Satellite Capability	04	U	38,851
70	0604036A	Multi-Domain Sensing System (MDSS) Adv Dev	04	U	191,394
71	0604037A	Tactical Intel Targeting Access Node (TITAN) Adv Dev	04	U	10,626
72	0604100A	Analysis Of Alternatives	04	U	11,095
73	0604101A	Small Unmanned Aerial Vehicle (SUAV) (6.4)	04	U	5,144
74	0604103A	Electronic Warfare Planning and Management Tool (EWPMT)	04	U	2,260
75	0604113A	Future Tactical Unmanned Aircraft System (FTUAS)	04	U	53,143
76	0604114A	Lower Tier Air Missile Defense (LTAMD) Sensor	04	U .	816,663
77	0604115A	Technology Maturation Initiatives	04	U	281,314
78	0604117A	Maneuver - Short Range Air Defense (M-SHORAD)	04	U	281,239

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line	Program Element			Se	FY 2022	FY 2023 Less Supplementals	FY 2023 Supplementals	FY 2023 Total
No	Number	Item	Act	°	Actuals	Enactment	Enactment*	Enactment
79	0604119A	Army Advanced Component Development & Prototyping	04	U	179,483	198,111		198,111
80	0604120A	Assured Positioning, Navigation and Timing (PNT)	04	U	80,858	57,620		57,620
81	0604121A	Synthetic Training Environment Refinement & Prototyping Counter Improvised-Threat Demonstration, Prototype	04	U	198,815	242,468		242,468
82	0604134A	Development, and Testing	04	U	12,891	14,840		14,840
83	0604135A	Strategic Mid-Range Fires	04	U		404,291		404,291
84	0604182A	Hypersonics	04	U	305,406	238,168		238,168
85	0604403A	Future Interceptor	04	U	6,643	8,179		8,179
86	0604531A	Counter - Small Unmanned Aircraft Systems Advanced Development	04	U	18,449	35,110		35,110
87	0604541A	Unified Network Transport	04	U	33,879	36,966		36,966
88	0604644A	Mobile Medium Range Missile	04	U	275,989			
89	0604785A	Integrated Base Defense (Budget Activity 4)	04	U	2,040			
90	0305251A	Cyberspace Operations Forces and Force Support	04	U	55 , 895	55,599		55,599
999	9999999999	Classified Programs	04	U				
	Advanced Com	ponent Development & Prototypes			3,799,417	4,631,111	6,000	4,637,111
91	0604201A	Aircraft Avionics	05	U	6,411	3,335		3,335
92	0604270A	Electronic Warfare Development	05	U	29,683	4,140		4,140
93	0604601A	Infantry Support Weapons	05	U	77,027	83,329		83,329
94	0604604A	Medium Tactical Vehicles	05	U	9,177	22,163		22,163
95	0604611A	JAVELIN	05	U	8,202	16,186		16,186

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

 80 0604120A Assured Position 81 0604121A Synthetic Trains 	Item	Act	Se	FY 2024
800604120AAssured Position810604121ASynthetic Traini Counter Improvis820604134ADevelopment, and830604135AStrategic Mid-Ra840604182AHypersonics			С	Request
 81 0604121A Synthetic Traini Counter Improvis 82 0604134A Development, and 83 0604135A Strategic Mid-Ra 84 0604182A Hypersonics 	mponent Development & Prototyping	04		204,914
Counter Improvis 82 0604134A Development, and 83 0604135A Strategic Mid-Ra 84 0604182A Hypersonics	ing, Navigation and Timing (PNT)	04	U	40,930
83 0604135A Strategic Mid-Ra 84 0604182A Hypersonics	ng Environment Refinement & Prototyping ed-Threat Demonstration, Prototype	04	U	109,714
84 0604182A Hypersonics	Testing	04	U	16,426
71	nge Fires	04	U	31,559
85 0604403A Future Intercept		04	U	43,435
	or	04	U	8,040
86 0604531A Counter - Small	Unmanned Aircraft Systems Advanced Development	. 04	U	64,242
87 0604541A Unified Network	Transport	04	U	40,915
88 0604644A Mobile Medium Ra	nge Missile	04	U	
89 0604785A Integrated Base	Defense (Budget Activity 4)	04	U	
90 0305251A Cyberspace Opera	tions Forces and Force Support	04	U	
999 999999999 Classified Progr	ams	04	U	19,200
Advanced Component Developmen	t & Prototypes			4,420,315
91 0604201A Aircraft Avionic	S	05	U	13,673
92 0604270A Electronic Warfa	re Development	05	U	12,789
93 0604601A Infantry Support	Weapons	05	U	64,076
94 0604604A Medium Tactical	Vehicles	05	U	28,226
95 0604611A JAVELIN				20/220

Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line <u>No</u>	Program Element <u>Number</u>	Item	Act	Se c	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
96	0604622A	Family of Heavy Tactical Vehicles	05	U	27,406	53,014		53,014
97	0604633A	Air Traffic Control	05	U	4,244	2,623		2,623
98	0604641A	Tactical Unmanned Ground Vehicle (TUGV)	05	U		109,849		109,849
99	0604642A	Light Tactical Wheeled Vehicles	05	U	1,980			
100	0604645A	Armored Systems Modernization (ASM) - Eng Dev	05	U	118,296	63,131		63,131
101	0604710A	Night Vision Systems - Eng Dev	05	U	41,831	92,951		92,951
102	0604713A	Combat Feeding, Clothing, and Equipment	05	U	1,598	1,566		1,566
103	0604715A	Non-System Training Devices - Eng Dev	05	U	28,605	18,588		18,588
104	0604741A	Air Defense Command, Control and Intelligence - Eng Dev	05	U	58,633	55,541		55,541
105	0604742A	Constructive Simulation Systems Development	05	U	21,424	29,481		29,481
106	0604746A	Automatic Test Equipment Development	05	U	8,486	5,178		5,178
107	0604760A	Distributive Interactive Simulations (DIS) - Eng Dev	05	U	12,182	8,189		8,189
108	0604798A	Brigade Analysis, Integration and Evaluation	05	U	20,976	21,086		21,086
109	0604802A	Weapons and Munitions - Eng Dev	05	U	287,787	285,778	600	286,378
110	0604804A	Logistics and Engineer Equipment - Eng Dev	05	U	49,201	75 , 669		75 , 669
111	0604805A	Command, Control, Communications Systems - Eng Dev Medical Materiel/Medical Biological Defense Equipment - Eng	05	U	19,372	44,993		44,993
112	0604807A	Dev	05	U	43,023	5,513		5,513
113	0604808A	Landmine Warfare/Barrier - Eng Dev	05	U	28,622	37,150		37,150
114	0604818A	Army Tactical Command & Control Hardware & Software	05	U	146,291	131,190		131,190
115	0604820A	Radar Development	05	U	124,832	71,259		71,259

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Program Line Element FY 2024 Se No Number Item Act c Request 96 0604622A Family of Heavy Tactical Vehicles U 05 44,197 97 0604633A Air Traffic Control 05 U 1,134 98 0604641A Tactical Unmanned Ground Vehicle (TUGV) 05 U 142,125 99 0604642A Light Tactical Wheeled Vehicles 05 U 53,564 100 0604645A Armored Systems Modernization (ASM) - Eng Dev 05 U 102,201 101 0604710A Night Vision Systems - Eng Dev 05 U 48,720 102 0604713A Combat Feeding, Clothing, and Equipment 05 Ħ 2,223 103 0604715A Non-System Training Devices - Eng Dev 05 U 21,441 104 0604741A Air Defense Command, Control and Intelligence - Eng Dev 05 U 74,738 105 0604742A Constructive Simulation Systems Development 05 U 30,985 106 0604746A Automatic Test Equipment Development 05 U 13,626 107 0604760A Distributive Interactive Simulations (DIS) - Eng Dev 05 U 8,802 108 0604798A Brigade Analysis, Integration and Evaluation 05 U 20,828 109 0604802A Weapons and Munitions - Eng Dev 05 U 243,851 110 0604804A Logistics and Engineer Equipment - Eng Dev 05 U 37,420 111 0604805A Command, Control, Communications Systems - Eng Dev 05 U 34,214 Medical Materiel/Medical Biological Defense Equipment - Eng 112 0604807A Dev 05 U 6,496 113 0604808A Landmine Warfare/Barrier - Eng Dev 05 U 13,581 1140604818A Army Tactical Command & Control Hardware & Software 05 U 168,574 115 0604820A Radar Development 05 U 94,944

Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line	Program Element			Se	FY 2022	FY 2023 Less Supplementals	FY 2023 Supplementals	FY 2023 Total
No	Number	Item	Act	<u> </u>	Actuals	Enactment	Enactment*	Enactment
116	0604822A	General Fund Enterprise Business System (GFEBS)	05	U	15,395	10,402		10,402
117	0604827A	Soldier Systems - Warrior Dem/Val	05	U	6,219	19,408		19,408
118	0604852A	Suite of Survivability Enhancement Systems - EMD	05	U	93,207	100,384		100,384
119	0604854A	Artillery Systems - EMD	05	U	25,000	48,106		48,106
120	0605013A	Information Technology Development	05	U	125,109	104,134		104,134
121	0605018A	Integrated Personnel and Pay System-Army (IPPS-A)	05	U	65,230	67,519		67,519
122	0605028A	Armored Multi-Purpose Vehicle (AMPV)	05	U	34,262			
123	0605030A	Joint Tactical Network Center (JTNC)	05	U	15,752	17,936		17,936
124	0605031A	Joint Tactical Network (JTN)	05	U	27,849	30,150		30,150
125	0605035A	Common Infrared Countermeasures (CIRCM)	05	U	15,982	11,523		11,523
126	0605036A	Combating Weapons of Mass Destruction (CWMD)	05	U				
127	0605038A	Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	05	U	7,340			
128	0605041A	Defensive CYBER Tool Development	05	U	18,811	20.000		
129	0605042A	-			,	39,029		39,029
		Tactical Network Radio Systems (Low-Tier)	05	U	27,688	4,426		4,426
130	0605047A	Contract Writing System	05	U	20,195	13,742		13,742
131	0605049A	Missile Warning System Modernization (MWSM)	0 5.	U				
132	0605051A	Aircraft Survivability Development	05	U	60,127	19,123		19,123
133	0605052A	Indirect Fire Protection Capability Inc 2 - Block 1	05	U	175,604	131,093		131,093
134	0605053A	Ground Robotics	05	U	15,763	26,809		26,809
135	0605054A	Emerging Technology Initiatives	05	U	219,284	244,047		244,047

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Program Line Element FY 2024 Se No Number Item Act с Request 116 0604822A General Fund Enterprise Business System (GFEBS) 05 U 2,965 117 0604827A Soldier Systems - Warrior Dem/Val 05 U 11,333 118 0604852A Suite of Survivability Enhancement Systems - EMD 05 U 79,250 119 0604854A Artillery Systems - EMD 05 U 42,490 120 0605013A Information Technology Development 05 U 104,024 121 0605018A Integrated Personnel and Pay System-Army (IPPS-A) U 05 102,084 122 0605028A Armored Multi-Purpose Vehicle (AMPV) 05 U 123 0605030A Joint Tactical Network Center (JTNC) 05 U 18,662 124 0605031A Joint Tactical Network (JTN) 0.5 U 30,328 125 0605035A Common Infrared Countermeasures (CIRCM) 05 U 11,509 126 0605036A Combating Weapons of Mass Destruction (CWMD) 05 U 1,050 Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) 127 0605038A Sensor Suite 05 U 128 0605041A Defensive CYBER Tool Development 05 U 27,714 129 0605042A Tactical Network Radio Systems (Low-Tier) 05 U 4,318 130 0605047A Contract Writing System 05 U 16,355 131 0605049A Missile Warning System Modernization (MWSM) 05 U 27,571 132 0605051A Aircraft Survivability Development 05 U 24,900 133 0605052A Indirect Fire Protection Capability Inc 2 - Block 1 05 U 196,248 134 0605053A Ground Robotics 05 U 35,319 135 0605054A Emerging Technology Initiatives 05 U 201,274

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line <u>No</u>	Program Element Number	Item	Act	<u>Se</u>	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
136	0605143A	Biometrics Enabling Capability (BEC)	05	U	4,326	11,091		11,091
137	0605144A	Next Generation Load Device - Medium	05	U	14,835	22,439		22,439
138	0605145A	Medical Products and Support Systems Development	05	U	927			
139	0605148A	Tactical Intel Targeting Access Node (TITAN) EMD	05	U	54,972	108,987		108,987
140	0605203A	Army System Development & Demonstration	05	U	122,175	143,616		143,616
141	0605205A	Small Unmanned Aerial Vehicle (SUAV) (6.5)	05	U	2,192	6,530		6,530
142	0605206A	CI and HUMINT Equipment Program-Army (CIHEP-A) Joint Targeting Integrated Command and Coordination Suite	05	U				
143	0605216A	(JTIC2S)	05	U				
144	0605224A	Multi-Domain Intelligence	05	U	9,313	6,008		6,008
145	0605225A	SIO Capability Development	05	U	22,713			
146	0605231A	Precision Strike Missile (PrSM)	05	U	181,574	259,506		259,506
147	0605232A	Hypersonics EMD	05	U	107,404	633,499		633,499
148	0605233A	Accessions Information Environment (AIE)	05	U	16,177	10,088		10,088
149	0605235A	Strategic Mid-Range Capability	05	U		5,016		5,016
150	0605236A	Integrated Tactical Communications	05	U		12,447		12,447
151	0605450A	Joint Air-to-Ground Missile (JAGM)	05	U	2,467	2,366		2,366
152	0605457A	Army Integrated Air and Missile Defense (AIAMD) Counter - Small Unmanned Aircraft Systems Sys Dev &	05	U	154,257	263,545		263,545
153	0605531A	Demonstration	05	U	49,667	14,892		14,892
154	0605625A	Manned Ground Vehicle	05	U	194,936	554,925		554,925
155	0605766A	National Capabilities Integration (MIP)	05	U	13,454	17,030		17,030

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Program Line Element Se FY 2024 No Number Item Act c Request 136 0605143A Biometrics Enabling Capability (BEC) 05 U 137 0605144A Next Generation Load Device - Medium 05 U 36,970 138 0605145A Medical Products and Support Systems Development 05 U 139 0605148A Tactical Intel Targeting Access Node (TITAN) EMD 05 U 132,136 140 0605203A Army System Development & Demonstration 05 U 81,657 141 0605205A Small Unmanned Aerial Vehicle (SUAV) (6.5) 05 U 31,284 0605206A 142 CI and HUMINT Equipment Program-Army (CIHEP-A) 05 U 2,170 Joint Targeting Integrated Command and Coordination Suite 143 0605216A (JTIC2S) 05 U 9,290 144 0605224A Multi-Domain Intelligence 05 U 41,003 145 0605225A SIO Capability Development 05 IJ 146 0605231A Precision Strike Missile (PrSM) 05 U 272,786 147 0605232A Hypersonics EMD 05 U 900,920 148 0605233A Accessions Information Environment (AIE) 05 U 27,361 149 0605235A Strategic Mid-Range Capability 05 U 348,855 150 0605236A Integrated Tactical Communications 05 U 22,901 151 0605450A Joint Air-to-Ground Missile (JAGM) 05 U 3,014 152 0605457A Army Integrated Air and Missile Defense (AIAMD) 05 U 284,095 Counter - Small Unmanned Aircraft Systems Sys Dev & 153 0605531A Demonstration 05 U 36,016 Manned Ground Vehicle 154 0605625A 05 U 996,653 155 National Capabilities Integration (MIP) 0605766A 05 U 15,129

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line <u>No</u>	Program Element <u>Number</u>	<u>Item</u> Joint Light Tactical Vehicle (JLTV) Engineering and	Act	<u>Se</u>	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
156	0605812A	Manufacturing Development Ph	05	U	2,470	9,376		9,376
157	0605830A	Aviation Ground Support Equipment	05	U	1,158	2,959		2,959
158	0303032A	TROJAN - RH12	05	U	3,362	3,761		3,761
159	0304270A	Electronic Warfare Development	05	U	75,520	99,938		99,938
	System Devel	lopment & Demonstration			3,178,005	4,317,752	600	4,318,352
160	0604256A	Threat Simulator Development	06	U	60,749	138,937		138,937
161	0604258A	Target Systems Development	06	U	41,769	64,132		64,132
162	0604759A	Major T&E Investment	06	U	91,130	142,031		142,031
163	0605103A	Rand Arroyo Center	06	U	31,087	33,631		33,631
164	0605301A	Army Kwajalein Atoll	06	U	242,279	309,005		309,005
165	0605326A	Concepts Experimentation Program	06	U	80,386	86,824		86,824
166	0605502A	Small Business Innovative Research	06	U	374,118			
167	0605601A	Army Test Ranges and Facilities	06	U	362,223	417,567		417,567
168	0605602A	Army Technical Test Instrumentation and Targets	06	U	57,584	67,962		67,962
169	0605604A	Survivability/Lethality Analysis	06	U	35,042	36,500		36,500
170	0605606A	Aircraft Certification	06	U	2,398	4,777		4,777
171	0605702A	Meteorological Support to RDT&E Activities	06	U	6,389	6,958		6,958
172	0605706A	Materiel Systems Analysis	06	U	20,771	22,004		22,004
173	0605709A	Exploitation of Foreign Items	06	U	13,631	6,186		6,186
174	0605712A	Support of Operational Testing	06	U	54,797	70,718		70,718

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Program Line Element FY 2024 Se No Number Item Act c Request Joint Light Tactical Vehicle (JLTV) Engineering and 156 0605812A Manufacturing Development Ph 05 U 27,243 157 0605830A Aviation Ground Support Equipment 05 U 1,167 158 0303032A TROJAN - RH12 05 U 3,879 159 0304270A Electronic Warfare Development 05 U 137,186 System Development & Demonstration 5,639,364 160 0604256A Threat Simulator Development 06 U 38,492 161 0604258A Target Systems Development 06 U 11,873 162 0604759A Major T&E Investment 76,167 06 U 163 0605103A Rand Arroyo Center 06 U 37,078 164 0605301A Army Kwajalein Atoll 06 U 314,872 165 0605326A Concepts Experimentation Program 06 U 95,551 Small Business Innovative Research 166 0605502A 06 U 167 0605601A Army Test Ranges and Facilities U 439,118 06 168 0605602A Army Technical Test Instrumentation and Targets 06 U 42,220 169 0605604A Survivability/Lethality Analysis 06 U 37,518 170 0605606A Aircraft Certification 06 U 2,718 171 0605702A Meteorological Support to RDT&E Activities 06 U 172 0605706A Materiel Systems Analysis U 26,902 06 173 0605709A Exploitation of Foreign Items 06 IJ 7,805 174 0605712A Support of Operational Testing 06 U 75,133

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line <u>No</u>	Program Element <u>Number</u>	Item	Act	Se	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
175	0605716A	Army Evaluation Center	06	U	65,693	67,058		67,058
176	0605718A	Army Modeling & Sim X-Cmd Collaboration & Integ	06	U	2,537	6,097		6,097
177	0605801A	Programwide Activities	06	U	90,443	89,793		89,793
178	0605803A	Technical Information Activities	06	U	31,174	37,652		37,652
179	0605805A	Munitions Standardization, Effectiveness and Safety	06	U	54,922	60,645		60,645
180	0605857A	Environmental Quality Technology Mgmt Support	06	U	1,724	1,912		1,912
181	0605898A	Army Direct Report Headquarters - R&D - MHA	06	U	48,798	53,271		53,271
182	0606002A	Ronald Reagan Ballistic Missile Defense Test Site	06	U	78,187	89,602		89,602
183	0606003A	CounterIntel and Human Intel Modernization	06	U	10,641	1,424		1,424
184	0606105A	Medical Program-Wide Activities	06	U	37,616			
185	0606942A	Assessments and Evaluations Cyber Vulnerabilities	06	U	5,466	5,816		5,816
186	0909999A	Financing for Cancelled Account Adjustments	06	U	101			
	Management S	lupport			1,901,655	1,820,502		1,820,502
187	0603778A	MLRS Product Improvement Program	07	U	11,865	18,463		18,463
188	0605024A	Anti-Tamper Technology Support	07	U	8,544	9,284		9,284
189	0607131A	Weapons and Munitions Product Improvement Programs	07	U	39,994	54,674	2,500	57,174
190	0607136A	Blackhawk Product Improvement Program	07	U	14,599			
191	0607137A	Chinook Product Improvement Program	07	U	65,960	67,513		67,513
192	0607139A	Improved Turbine Engine Program	07	U	250,533	228,036		228,036
193	0607142A	Aviation Rocket System Product Improvement and Development	07	U	8,831	11,312		11,312

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line	Program				
<u>No</u>	Element Number	Item	Act	Se c	FY 2024 Request
175	0605716A	Army Evaluation Center	06	 U	71,118
176	0605718A	Army Modeling & Sim X-Cmd Collaboration & Integ	06	U	11,204
177	0605801A	Programwide Activities	06	U	93,895
178	0605803A	Technical Information Activities	06	U	31,327
179	0605805A	Munitions Standardization, Effectiveness and Safety	06	U	50,409
180	0605857A	Environmental Quality Technology Mgmt Support	06	U	1,629
181	0605898A	Army Direct Report Headquarters - R&D - MHA	06	U	55,843
182	0606002A	Ronald Reagan Ballistic Missile Defense Test Site	06	U	91,340
183	0606003A	CounterIntel and Human Intel Modernization	06	U	6,348
184	0606105A	Medical Program-Wide Activities	06	U	
185	0606942A	Assessments and Evaluations Cyber Vulnerabilities	06	U	6,025
186	0909999A	Financing for Cancelled Account Adjustments	06	U	
	Management S	Support			1,624,585
187	0603778A	MLRS Product Improvement Program	07	U.	14,465
188	0605024A	Anti-Tamper Technology Support	07	U	7,472
189	0607131A	Weapons and Munitions Product Improvement Programs	07	U	8,425
190	0607136A	Blackhawk Product Improvement Program	07	U	1,507
191	0607137A	Chinook Product Improvement Program	07	U	9,265
192	0607139A	Improved Turbine Engine Program	07	U	201,247
193	0607142A	Aviation Rocket System Product Improvement and Development	07	U	3,014

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line <u>No</u>	Program Element Number	Item	Act	<u>Se</u>	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
194	0607143A	Unmanned Aircraft System Universal Products	07	U	4,426	10,512		10,512
195	0607145A	Apache Future Development	07	U	9,700	25,074		25,074
196	0607148A	AN/TPQ-53 Counterfire Target Acquisition Radar System	07	U	46,009	61,559		61,559
197	0607150A	Intel Cyber Development	07	U	3,611	13,343		13,343
198	0607312A	Army Operational Systems Development	07	U	28,029	26,131		26,131
199	0607313A	Electronic Warfare Development	07	U	5,673	6,432		6,432
200	0607315A	Enduring Turbine Engines and Power Systems	07	U				
201	0607665A	Family of Biometrics	07	U	1,101	1,114		1,114
202	0607865A	Patriot Product Improvement	07	U	125,851	152,312		152,312
203	0203728A	Joint Automated Deep Operation Coordination System (JADOCS)	07	U	24,556	19,311		19,311
204	0203735A	Combat Vehicle Improvement Programs	07	U	272,438	194,229		194,229
205	0203743A	155mm Self-Propelled Howitzer Improvements	07	U	168,683	116,510		116,510
206	0203744A	Aircraft Modifications/Product Improvement Programs	07	U	10,000			
207	0203752A	Aircraft Engine Component Improvement Program	07	U	127	148		148
208	0203758A	Digitization	07	U	3,759			
209	0203801A	Missile/Air Defense Product Improvement Program	07	U	122	3,109		3,109
210	0203802A	Other Missile Product Improvement Programs	07	U	9,956	9,027		9,027
211	0205412A	Environmental Quality Technology - Operational System Dev	07	U	253	793		793
212	0205778A	Guided Multiple-Launch Rocket System (GMLRS)	07	U	58,516	20,180		20,180
213	0208053A	Joint Tactical Ground System	07	U	11,379	8,813		8,813

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Program Line Element FY 2024 Se No Number Item Act c Request 194 0607143A Unmanned Aircraft System Universal Products 07 U 25,393 195 0607145A Apache Future Development 07 Ū 10,547 196 0607148A AN/TPQ-53 Counterfire Target Acquisition Radar System 07 U 54,167 197 0607150A Intel Cyber Development 07 U 4,345 198 0607312A Army Operational Systems Development 07 U 19,000 199 0607313A Electronic Warfare Development 07 U 6,389 200 0607315A Enduring Turbine Engines and Power Systems 07 U 2,411 201 0607665A Family of Biometrics 07 U 797 202 0607865A Patriot Product Improvement 07 U 177,197 203 0203728A Joint Automated Deep Operation Coordination System (JADOCS) 07 U 42,177 204 0203735A Combat Vehicle Improvement Programs 07 U 146,635 155mm Self-Propelled Howitzer Improvements 205 0203743A 07 U 122,902 206 0203744A Aircraft Modifications/Product Improvement Programs 07 U 207 0203752A Aircraft Engine Component Improvement Program 07 U 146 208 0203758A Digitization 07 IJ 1,515 209 0203801A Missile/Air Defense Product Improvement Program 07 U 4,520 210 0203802A Other Missile Product Improvement Programs 07 U 10,044 211 0205412A Environmental Quality Technology - Operational System Dev 07 U 281 212 Guided Multiple-Launch Rocket System (GMLRS) 0205778A 07 U 75,952 213 0208053A Joint Tactical Ground System 07 U 203

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Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line <u>No</u>	Program Element <u>Number</u>	Item	Act	Se c	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
216	0303028A	Security and Intelligence Activities	07	 U	24,506		Enactment	Enactment
217	0303140A	Information Systems Security Program	07	U	15,680	17,209		17,209
218	0303141A	Global Combat Support System	07	U	43,643	22,600		22,600
219	0303142A	SATCOM Ground Environment (SPACE)	07	U	16,186	18,297		18,297
222	0305179A	Integrated Broadcast Service (IBS)	07	U	5,430	9,926		9,926
223	0305204A	Tactical Unmanned Aerial Vehicles	07	U	8,410	4,500		4,500
224	0305206A	Airborne Reconnaissance Systems	07	U	11,782	17,165		17,165
225	0305219A	MQ-1C Gray Eagle UAS	07	U		•		1,,100
226	0307665A	Biometrics Enabled Intelligence	07	U	2,066			
227	0708045A	End Item Industrial Preparedness Activities	07	U	101,466	132,270		132,270
999	9999999999	Classified Programs	07	U	2,993	6,664		6,664
	Operational	Systems Development			1,416,677	1,286,510	2,500	1,289,010
228	0608041A	Defensive CYBER - Software Prototype Development	08	U	108,041	94,831	_,	94,831
	Software And	Digital Technology Pilot Programs			108,041	94,831		94,831
Total Research, Development, Test and Evaluation, Army					14,660,654	17,142,121	9,100	17,151,221

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

Department of the Army FY 2024 President's Budget Exhibit R-1 FY 2024 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

	Program				
Line	Element			Se	FY 2024
No	Number	Item	Act	<u>°</u>	Request
216	0303028A	Security and Intelligence Activities	07	U	301
217	0303140A	Information Systems Security Program	07	U	15,323
218	0303141A	Global Combat Support System	07	U	13,082
219	0303142A	SATCOM Ground Environment (SPACE)	07	U	26,838
222	0305179A	Integrated Broadcast Service (IBS)	07	U	9,456
223	0305204A	Tactical Unmanned Aerial Vehicles	07	U	
224	0305206A	Airborne Reconnaissance Systems	07	U	
225	0305219A	MQ-1C Gray Eagle UAS	07	U	6,629
226	0307665A	Biometrics Enabled Intelligence	07	U	
227	0708045A	End Item Industrial Preparedness Activities	07	U	75,317
999	9999999999	Classified Programs	07	U	8,786
	Operational	Systems Development			1,105,748
228	0608041A	Defensive CYBER - Software Prototype Development	08	U	83,570
	Software And	l Digital Technology Pilot Programs			83,570
Total	Research, Dev	velopment, Test and Evaluation, Army			15,775,381

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Army • Budget Estimates FY 2024 • RDT&E Program

Program Element Table of Contents (by Budget Activity then Line Item Number)

Appropriation 2040: Research, Development, Test & Evaluation, Army

Line #	Budget Activity	Program Element Number	Program Element Title	Page
114	05	0604820A	Radar Development	Volume 3c - 1
115	05	0604822A	General Fund Enterprise Business System (GFEBS)	Volume 3c - 12
116	05	0604827A	Soldier Systems - Warrior Dem/Val	Volume 3c - 26
117	05	0604852A	Suite of Survivability Enhancement Systems - EMD	Volume 3c - 52
118	05	0604854A	Artillery Systems - EMD	Volume 3c - 66
119	05	0605013A	Information Technology Development	Volume 3c - 77
120	05	0605018A	Integrated Personnel and Pay System-Army (IPPS-A)	Volume 3c - 170
121	05	0605028A	Armored Multi-Purpose Vehicle (AMPV)	Volume 3c - 181
122	05	0605030A	Joint Tactical Network Center (JTNC)	Volume 3c - 190
123	05	0605031A	Joint Tactical Network (JTN)	Volume 3c - 200
124	05	0605035A	Common Infrared Countermeasures (CIRCM)	Volume 3c - 219
125	05	0605036A	Combating Weapons of Mass Destruction (CWMD)	Volume 3c - 228
126	05	0605038A	Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	Volume 3c - 235
127	05	0605041A	Defensive CYBER Tool Development	Volume 3c - 241
128	05	0605042A	Tactical Network Radio Systems (Low-Tier)	Volume 3c - 270
129	05	0605047A	Contract Writing System	Volume 3c - 288

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Appropriation 2040: Research, Development, Test & Evaluation, Army

Line #	Budget Activit	ty Program Element Number	Program Element Title	Page
130	05	0605049A	Missile Warning System Modernization (MWSM)	sc - 302

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Program Element Table of Contents (Alphabetically by Program Element Title)

Program Element Title	Program Element Number	Line #	BA Page
Armored Multi-Purpose Vehicle (AMPV)	0605028A	121	05 Volume 3c - 181
Artillery Systems - EMD	0604854A	118	05 Volume 3c - 66
Combating Weapons of Mass Destruction (CWMD)	0605036A	125	05 Volume 3c - 228
Common Infrared Countermeasures (CIRCM)	0605035A	124	05 Volume 3c - 219
Contract Writing System	0605047A	129	05 Volume 3c - 288
Defensive CYBER Tool Development	0605041A	127	05 Volume 3c - 241
General Fund Enterprise Business System (GFEBS)	0604822A	115	05 Volume 3c - 12
Information Technology Development	0605013A	119	05 Volume 3c - 77
Integrated Personnel and Pay System-Army (IPPS-A)	0605018A	120	05 Volume 3c - 170
Joint Tactical Network (JTN)	0605031A	123	05 Volume 3c - 200
Joint Tactical Network Center (JTNC)	0605030A	122	05 Volume 3c - 190
Missile Warning System Modernization (MWSM)	0605049A	130	05 Volume 3c - 302
Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	0605038A	126	05 Volume 3c - 235
Radar Development	0604820A	114	05 Volume 3c - 1
Soldier Systems - Warrior Dem/Val	0604827A	116	05 Volume 3c - 26
Suite of Survivability Enhancement Systems - EMD	0604852A	117	05 Volume 3c - 52
Tactical Network Radio Systems (Low-Tier)	0605042A	128	05 Volume 3c - 270

Exhibit R-2, RDT&E Budget Iten	n Justificat	tion: PB 202	24 Army							Date: March 2023		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604820A / Radar Development							
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	-	124.832	71.259	94.944	-	94.944	48.837	18.987	8.508	8.603	0.000	375.970
E10: Sentinel	-	124.832	71.259	94.944	-	94.944	48.837	18.987	8.508	8.603	0.000	375.970

A. Mission Description and Budget Item Justification

This funding line is a key enabler of the Army Modernization Priorities in support of the Sentinel Radar program and will provide for an incrementally fielded Integrated Air and Missile Defense Fire Control System/capability for the composite Army Air and Missile Defense Brigades. The Sentinel system is a key component of the Army Integrated Air and Missile Defense (AIAMD) architecture, providing critical air surveillance of the forward areas. The AIAMD architecture is an integrated fires development effort that includes survivability, resiliency, and effectiveness improvements against advanced threats from near-peer adversaries. This effort includes integration with an evolving common fires mission command, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.

Sentinel A3 consists of a radar-based sensor with its prime mover/power, Identification Friend or Foe (IFF), and Forward Area Air Defense (FAAD) Command, Control and Intelligence (C2I) interfaces. The radar is deployed in both an air defense role and a force protection role for Counter-Rocket, Artillery, and Mortar (C-RAM) missions. The sensor is an advanced three-dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 75 kilometers. Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols and enemy countermeasures. It provides 360-degree azimuth coverage for acquisition tracking. Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying and reporting targets (cruise missiles, unmanned aircraft systems, rotary wing and fixed wing aircraft). Sentinel acquires targets sufficiently forward of the battle area to allow weapons reaction time and engagement at optimum ranges. Sentinel's integrated IFF reduces the potential for fratricide of U.S. and Coalition aircraft.

The Sentinel A4 Active Electronically Scanned Array (AESA) is the next generation of radar technology to replace the current phase and frequency scanned array used by Sentinel today. Sentinel A4 hardware and software upgrades will extend the range for ground-based surveillance and situational awareness; will have faster and more accurate Non-Cooperative Target Recognition (NCTR) for clearing fires and preventing fratricide; will improve track accuracy, and management of larger track loads; and improve operation in severe/urban clutter. The system will provide simultaneous multi-mission capability and provides hemispherical surveillance to detect and track small targets, such as Unmanned Aircraft Systems (UAS) and Cruise Missiles, in clutter and will detect and track slow targets, such as UAS and Rotary Wing aircraft, at low altitudes in clutter. The system will detect, track, and classify Rocket, Artillery, and Mortar (RAM) threats and will support M-SHORAD, AIAMD, IFPC and Defense of Guam Operational requirements with Fire Control quality tracks. Sentinel A4 will incorporate the upgraded AN//TPX-61 IFF with M-Code capability added by replacing the GB-Gram card with M-Code GB-Gram cards. Sentinel A4 will also address system survivability enhancements via the Air and Missile Defense - Integration (AMD-I) efforts.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 A	rmy			Date:	March 2023
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA Development & Demonstration (SDD)	5: System	-	e ment (Number/Name) Radar Development	/	
B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	122.607	71.259	74.055	-	74.055
Current President's Budget	124.832	71.259	94.944	-	94.944
Total Adjustments	2.225	0.000	20.889	-	20.889
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	2.225	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	20.889	-	20.889

Change Summary Explanation

FY 2024 Base dollars is in support of the Pacific Deterrence Initiative. This is an increase from the FY 2023 funding level, which had no request for PDI funding in Program Element 0604820A/ Radar Development. This funding will be utilized for Defense Guam (from R-3).

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	rmy							Date: Marc	h 2023	
Appropriation/Budget Activity 2040 / 5					-	am Element 20A / Radar	•	,	Project (N E10 / Senti	u mber/Nan inel	ne)	
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
E10: Sentinel	-	124.832	71.259	94.944	-	94.944	48.837	18.987	8.508	8.603	0.000	375.970
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Sentinel A4 detects, tracks, and classifies RAM threats and will support Integrated Air and Missile Defense Battle Command System (IBCS) requirements and contributes sensor support for mitigating current and future Indirect Fire Protection Capability Increment 2 mission requirements as well as Mobile Short Range Air Defense (M-SHORAD) battalions. FY 2024 funding supports the integration for five (5) Initial Operational Test and Evaluation (IOT&E) Systems, the development of additional survivability enhancements (AMDI-I) for inclusion into Sentinel A4, as well as the non-recurring engineering efforts to enhance the Sentinel A4 configuration to support Defense of Guam mission set to enable fielding in country by requested timelines. Integration for the IOT&E systems will complete in FY2024. These IOT&E systems will field in support of IOT&E testing scheduled to begin in 1QFY2025.

Electronic Attack/Electronic Protect (EA/EP) addresses the electronic countermeasures (ECM) gap for Sentinel A3. This effort continues through the life of the radar, addressing both changing threats and electronic counter measure gaps.

Title: Product Development Description: Funding is provided for the following Product Development efforts: FY 2023 Plans: Will continue to build and integration of five (5) Sentinel A4 User Operational Evaluation Systems (UOES) to serve as soldier	117.650	53.380	89.383
FY 2023 Plans: Will continue to build and integration of five (5) Sentinel A4 User Operational Evaluation Systems (UOES) to serve as soldier			
Will continue to build and integration of five (5) Sentinel A4 User Operational Evaluation Systems (UOES) to serve as soldier			
touch points for feedback prior to initiating Low Rate Initial Production (LRIP). Will provide UOES assets to support test events for emerging requirements. Will initiate build of five (5) Initial Operational Test and Evaluation (IOT&E) assets for delivery in support of system IOT&E. Will continue to perform technical assessments, concept studies, cost reduction, risk reduction, threat analysis, and required documentation for Sentinel A3.			
<i>FY 2024 Plans:</i> Will continue build and integration of five (5) Initial Operational Test and Evaluation (IOT&E) assets for delivery in support of system IOT&E. Will develop additional survivability enhancements (AMD-I) for inclusion into Sentinel A4. Will enhance Sentinel A4 to support Defense of Guam mission. Will continue to perform technical assessments, concept studies, cost reduction, risk reduction, threat analysis, and required documentation for Sentinel A3. See R-3 for details.			
FY 2023 to FY 2024 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justif	ication: PB	2024 Army							Date: M	arch 2023	
Appropriation/Budget Activity 2040 / 5					r ogram Ele r 04820A / <i>Ra</i>	•	,	-	t (Number/N Sentinel	ame)	
B. Accomplishments/Planned Prog	rams (\$ in M	<u>/illions)</u>						[FY 2022	FY 2023	FY 2024
FY 2024 increase due to development Sentinel A4 to support Defense of Gu		survivability	enhancemei	nts (AMD-I) f	for inclusion	into Sentine	A4 and to er	hance			
Title: Test & Evaluation									7.182	15.278	5.56
Description: Funding is provided for	the following	Test and E	valuation eff	orts:							
FY 2023 Plans: Supports completion of Development Operational Test Agency (OTA) Miles verification testing, field testing again materiel release of software and hard	stone Assess st representa	ment Repor ative targets	rt (OMAR). V . Prepares lo	Vill conduct s	software qua	lification tes	t and hardwar				
FY 2024 Plans: Supports soldier touchpoint for Sentire target and range support for Sentinel integration test events. Will conduct s targets. Prepares logistics products a Sentinel A3 and Sentinel A4.	A4 Initial Op oftware qual	erational Te ification test	est and Evalu t and hardwa	ation (IOT&	E). Provides on testing, fie	support for Id testing ag	System of Sy ainst represe	stem ntative			
FY 2023 to FY 2024 Increase/Decree Decrease from FY 2023 to FY 2024 c in FY 2023.			elopmental 7	Festing and I	Limited User	Testing (LU	T) for Sentine	el A4			
<i>Title:</i> SBIR/STTR									-	2.601	-
Description: Funding transferred in a	accordance v	vith Title 15	USC §638.								
FY 2023 Plans: Funding transferred in accordance wi	th Title 15 U	SC §638.									
FY 2023 to FY 2024 Increase/Decree Funding transferred in accordance wi											
				Accon	nplishment	s/Planned P	rograms Sul	ototals	124.832	71.259	94.94
C. Other Program Funding Summa	ry (\$ in Milli	ons <u>)</u>									
Line Item • WK5057: Sentinel Mods	<u>FY 2022</u> 100.642	<u>FY 2023</u> 166.736	FY 2024 Base 161.886	<u>FY 2024</u> <u>OCO</u> -	FY 2024 <u>Total</u> 161.886	<u>FY 2025</u> 233.368	<u>FY 2026</u> 501.923	<u>FY 202</u> 504.22		•	Total Cos
PE 0604820A: Radar Development				UNCLAS	SIFIED						
Army				Page 4			R-1 Line #	[£] 114		Ve	olume 3c - 4

Exhibit R-2A, RDT&E Project Justi	fication: PB	3 2024 Army							Date: Ma	rch 2023			
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name)Project (NPE 0604820A / Radar DevelopmentE10 / Sen					(Number/Name) ntinel			
C. Other Program Funding Summa	ary (\$ in Mill	ions)						I					
		-	<u>FY 2024</u>	FY 2024	<u>FY 2024</u>					Cost To			
Line Item	<u>FY 2022</u>	FY 2023	Base	000	<u>Total</u>	<u>FY 2025</u>	FY 2026	FY 2027	<u>FY 2028</u>	Complete	Total Cost		
• EX2: Lower Tier Air Missile	408.766	380.147	816.663	-	816.663	118.939	122.544	89.261	90.257	0.000	2,026.577		
Defense (LTAMD) Capability													
FM3: Future Interceptor	6.643	8.179	8.040	-	8.040	8.042	8.052	8.138	8.229	0.000	55.323		
C53101: MSE Missile	1,333.148	1,037.093	1,212.832	-	1,212.832	961.192	973.464	985.250	985.854	Continuing	Continuing		
• EY7: IFPC Increment 2 - Block 1	175.604	131.093	196.248	-	196.248	154.275	166.672	113.841	135.117	0.000	1,072.850		
• C62002: IFPC INC 2-	19.053	18.924	313.189	-	313.189	697.307	1,002.324	1,023.636	985.973	0.000	4,060.406		
I BLOCK 1 SYSTEM													
• FI4: Maneuver - Short Range	37.939	10.363	10.188	-	10.188	10.190	15.235	10.209	10.323	0.000	104.447		
Air Defense (M-SHORAD)													
• C14300: <i>M-SHORAD</i>	332.984	135.747	400.697	-	400.697	-	-	-	-	Continuing	Continuing		
- Procurement													
 S40: Army Integrated 	154.257	263.545	254.163	-	254.163	355.723	214.394	135.637	166.652	0.000	1,544.371		
Air and Missile Defense													
BZ5075: IAMD Battle	399.800	438.967	412.556	-	412.556	509.654	572.362	658.046	442.781	Continuing	Continuing		
Command System											_		
• 0604741A: Air Defense Command,	58.633	55.541	74.738	-	74.738	70.022	64.141	70.657	71.628	Continuing	Continuing		
Control and Intelligence - Eng Dev										_	_		
AD5070: AIR & MSL Defense	67.193	72.619	68.892	-	68.892	67.495	-	-	-	0.000	276.199		
Planning & Control Sys													

<u>Remarks</u>

These programs are an integral part of the Army Integrated Air and Missile Defense (AIAMD) architecture.

D. Acquisition Strategy

Sentinel A3 and its predecessors were procured from Raytheon as a non-developmental item. The U.S. Government does not have adequate data rights for the Sentinel A3 and its predecessors; therefore no other contractor has the technical ability to modify the Sentinel A3 radar or Sentinel A3 software. The modifications for Sentinel A3 fall into these categories: Electronic Attack/Electronic Protect; Signal Data Processor; North Finding Module; Medium Bandwidth; Resiliency and Software Assurance Modification (RSAM); Counter Rocket Artillery and Mortar (C-RAM), Low Slow Small, Unmanned Aircraft Systems, Cruise Missiles; and Mode S. Electronic Attack/ Electronic Protect will be an ongoing effort to ensure Sentinel A3 remains relevant in the field until A4 is fielded.

For the Sentinel A4 modification, Lockheed Martin was competitively awarded a Fixed Price Incentive Firm (FPIF) contract to develop a modified Sentinel with a new Active Electronically Scanned Array (AESA) antenna. The contract award to Lockheed Martin includes EMD with priced options for LRIP. Fifteen RDTE funded assets are on contract with Lockheed Martin including five (5) EMD prototypes, five (5) UOES assets to support System of System Integration Testing and five (5) IOT&E assets.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023
	R-1 Program Element (Number/Name)	Project (N	umber/Name)
	PE 0604820A <i>I Radar Development</i>	E10 / Sent	inel

Sentinel is a component of an integrated fires development effort that includes survivability, resiliency, and effectiveness improvements against advanced threats from near-peer adversaries. This effort includes integration with an evolving common fires mission command, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.

Appropriation/Budg 2040 / 5	et Activity	/							umber/Na velopmen		Project (Number/Name) E10 / Sentine/				
Management Servic	es (\$ in M	lillions)		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Support	Various	Various : Multiple	17.101	4.679	Nov 2021	4.768	Nov 2022	4.858	Nov 2023	-		4.858	Continuing	Continuing	Continuing
SBIR/STTR	TBD	N/A : N/A	-	-		2.601		-		-		-	0.000	2.601	-
		Subtotal	17.101	4.679		7.369		4.858		-		4.858	Continuing	Continuing	N/A
Product Developme	nt (\$ in M	illions)	 [FY	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Electronic Attack/ Electronic Protect	Various	Raytheon & Various : Fullerton, CA / Various	31.172	5.327	Jan 2022	4.000	Jan 2023	3.839	Jan 2024	-		3.839	Continuing	Continuing	-
Active Electronically Scanned Array (A4)	C/FPIF	Lockheed Martin & Search, Track, Acquire, Radiate, Eliminate (PM STARE) : Syracuse, NY and Huntsville, AL	204.839	100.944	Jan 2022	44.612	Jan 2023	54.108	Jan 2024	-		54.108	Continuing	g Continuing	-
Anti-Tamper (A4)	SS/ Various	Lockheed Martin & Search, Track, Acquire, Radiate, Eliminate (PM STARE) : Syracuse, NY and Huntsville, AL	-	6.700	Jan 2022	-		-		-		-	0.000	6.700	-
System survivability Enhancements (AMD-I) (A4)	SS/ Various	Lockheed Martin & Search, Track, Acquire, Radiate, Eliminate (PM STARE) : Syracuse, NY and Huntsville, AL	-	-		-		12.064	Jan 2024	-		12.064	Continuing	g Continuing	-
Defense of Guam Development (A4)	C/FPIF	Lockheed Martin & Search, Track, Acquire, Radiate,	-	-		-		14.514	Jan 2024	-		14.514	0.000	14.514	-

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	024 Army	/								Date:	March 20)23	
Appropriation/Budg 2040 / 5	et Activity	/				R-1 Program Element (Number/Name)Project (Number/Name)PE 0604820A / Radar DevelopmentE10 / Sentinel									
Product Developme	uct Development (\$ in Millions)		ſ	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Eliminate (PM STARE) : Syracuse, NY and Huntsville, AL													
		Subtotal	236.011	112.971		48.612		84.525		-		84.525	Continuing	Continuing	N/A
Test and Evaluation	(\$ in Milli	ons)	ſ	FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Electronic Attack/ Electronic Protect	Various	Raytheon & Various : Fullerton, CA / Various	6.540	0.840	Jan 2022	0.225	Jan 2023	0.229	Jan 2024	-		0.229	Continuing	Continuing	-
Active Electronically Scanned Array (A4)	C/FPIF	Lockheed Martin & Search, Track, Acquire, Radiate, Eliminate (PM STARE : Syracuse, NY and Huntsville, AL	-	6.342	Jan 2022	15.053	Jan 2023	5.332	Jan 2024	-		5.332	Continuing	Continuing	-
		Subtotal	6.540	7.182		15.278		5.561		-		5.561	Continuing	Continuing	N/A
			Prior Years	FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	259.652	124.832		71.259		94.944		-		94.944	Continuina	Continuing	N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2024 A	vrmy							Date: March 20	23
Appropriation/Budget Activity 2040 / 5				rogram Elemer 604820A / Rada	n t (Number/Nam r Development		Project (N E10 / Sent	lumber/Name) tinel	
[1		1	
Event Name	FY 2022	FY 20	23	FY 2024	FY 2025	F)	2026	FY 2027	FY 2028
Sentinel A3									
Electronic Attack/Electronic Protect (EA/EP)	EA/EP								
Active Electronically Scanned Array (AESA) (A4)									
Engineering Manufacturing and Development Prototype Buil.	EMD Prototype Build and	Integration							
Contractor Verification Testing	CVT								
Developmental Test	Developmenta	Test							
Defense of Guam Development		Combatan	it Comman	ds NRE					
Limited User Testing			r						
Operational Test Agency (OTA) Milestone Assessment Repor	t		MAR						
Milestone C			c						
User Operational Evaluation System (UOES) Build and Inte	UOES Build and Integratic	n							
Initial Operational Test and Evaluation System Build and			IOT&E As	sset Build and Integratio					
Soldier touchpoint and feedback and test				UOES system of system	n integration				
					1	1		I	
PE 0604820A: Radar Development		UN	CLAS	SIFIED					Volume 3c - 9

Exhibit R-4, RDT&E Schedule Profile: PB 202	4 Army					Date: March 20	23
Appropriation/Budget Activity 2040 / 5			R-1 Program Elemen PE 0604820A <i>I Radar</i>		e) Project (N E10 / Sen	lumber/Name) tinel	
Event Name	FY 2022	FY 2023	3 FY 2024 4 1 2 3 4	FY 2025	FY 2026	FY 2027	FY 2028
System Survivability Enhancements (AMD-I)			AMD-I				
Range and Target Support			Ran	ge and Test Support			
Intitial Operational Test and Evaluation (IOT&E)				IOT&E			
Pre-Planned Product Enhancements				Product Enhar	cements		

Date: March 2023								
• • •	R-1 Program Element (Number/Name PE 0604820A <i>I Radar Development</i>		Project (Number/Name) E10 / Sentinel					
Sche	edule Details							
	Start		Er	nd				
Events	Quarter	/ear	Quarter	Year				
Sentinel A3	2 2	2019	4	2030				
Electronic Attack/Electronic Protect (EA/EP)	2 2	2015	4	2030				
Active Electronically Scanned Array (AESA) (A4)	4	2019	4	2033				
Milestone B	4 2	2019	4	2019				
Engineering Manufacturing and Development Prototype Build and Integratic	n 2 2	2020	2	2022				
Preliminary Design Review	2 2	2020	2	2020				
Critical Design Review	2 2	2021	2	2021				
Contractor Verification Testing	4 2	2021	2	2022				
Developmental Test	2 2	2022	2	2023				
Defense of Guam Development	2 2	2023	2	2026				
Limited User Testing	3 2	2023	3	2023				
Operational Test Agency (OTA) Milestone Assessment Report	3 2	2023	3	2023				
Milestone C	3 2	2023	3	2023				
User Operational Evaluation System (UOES) Build and Integration	1 2	2022	2	2023				
Initial Operational Test and Evaluation System Build and Integration	3 2	2023	4	2024				
Soldier touchpoint and feedback and test	1 1	2024	3	2024				
System Survivability Enhancements (AMD-I)	2 2	2024	3	2026				
Range and Target Support	4 2	2024	4	2024				
Intitial Operational Test and Evaluation (IOT&E)	1 1	2025	2	2025				
Pre-Planned Product Enhancements	2 2	2025	4	2030				

Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 202	24 Army							Date: Marc	ch 2023	
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)				tem	R-1 Program Element (Number/Name) PE 0604822A <i>I General Fund Enterprise Business System (GFEBS)</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	-	15.395	10.402	2.965	-	2.965	2.002	2.044	2.088	2.131	0.000	37.027
DV6: General Fund Enterprise Business System	-	4.862	2.163	-	-	-	-	-	-	-	0.000	7.025
GF5: General Fund Enterprise Business System	-	10.533	8.239	2.965	-	2.965	2.002	2.044	2.088	2.131	0.000	30.002

A. Mission Description and Budget Item Justification

This Program Element (PE) supports the General Fund Enterprise Business System-Sensitive Activities (GFEBS-SA): GFEBS-SA is a National Security System (NSS) leveraging the GFEBS base system as the Army's core financial management system, certified by the Chief Financial Officer Council, to provide the same financial capabilities of GFEBS but on SIPR, with additional security features to protect national security information. GFEBS-SA was implemented to protect sensitive information and enable clean auditability, allowing the Army to process sensitive and classified financial transactions that cannot be processed in the fully-fielded GFEBS base system without compromising classified information, missions, or endangering soldiers. GFEBS-SA was developed and deployed as an essential financial program designed to enable the auditability that is needed to comply with the Chief Financial Officers (CFO) Act, the Federal Financial Management Improvement Act (FFMIA), and prevent compromise of data that could cause grave harm to U.S. forces. GFEBS-SA was fully deployed in 2020 to 3,000 users across 100 locations worldwide and processes Secret Collateral and below information. Services are capable of being upgraded throughout the life of the program in order to incorporate advances in best business practices and technology, and will modify capability to maintain a synchronized software baseline with the GFEBS base system to maintain efficiencies in capability enhancements, training documentation, and sustainment support. In FY 2021, GFEBS-SA received approval to proceed with entry into capability support furansitioned to Army Shared Services Center (ASSC). The FY 2022 RDT&E funded system upgrades and enhancements to ensure synchronization between the GFEBS-SA system and the GFEBS base system in order to meet mandatory data exchange and interface requirements. FY 2023 RDT&E funding supports continuous enhancements to the GFEBS-SA SIPR capabilities to ensure appropriate security measures are in place to protect sensitive fi

General Fund Enterprise Business System (GFEBS): GFEBS is the Army's core financial management system for administering its General Fund. Full Deployment was reached in 2012 and the system is currently in the Capability Support (sustainment) phase of the Business Capability Acquisition Cycle, focused on modernization, cyber security, and system enhancements while also conducting capability enhancements to meet policy and deliver accurate Army financial information. GFEBS was implemented to fulfill the needs and enable the Army to comply with the Federal Financial Management Improvement Act, deployed to over 35,000 users across 200 locations worldwide. GFEBS was developed using a commercial off-the-shelf Enterprise Resource Planning system that is certified by the Chief, Financial Officer Council and provides six core financial functions (United States General Ledger (USGL), Cost Management, Funds Control, Payable Management, Real Property, Receivable Management and Reports).

GFEBS RDT&E funds capability enhancements designed to meet audit readiness standards and system changes as prioritized by the functional sponsor and user community through the Tactical Financial Information Council, a Senior Executive Service/General Officer-level board. The RDT&E funding will support the increase

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604822A / General Fund Enterprise Business Syste	em (GFEBS)

in mission performance and improvement of automated system processes and continues to support modernization efforts aligned with the Original Equipment Manufacturer's Systems Applications and Products (SAP) next generation capability. Activities include code de-customization, data enablement, and improved automated data access to prevent end of support for the current database and platform. Funds will also support acquisition trades and market research on alternatives for SAP based finance/logistics consolidation to evaluate potential efficiencies by reducing platforms and licenses. The FY 2024 RDT&E will continue to support enhancements, for example, system upgrade in support interfaces to improve system performance, accountability, and auditability efforts. These funds will be used to meet OSD and Army data exchange, and interface requirements. The additional capability will support both compliancy to meet audit requirements and updated interfaces to replace sun-setting systems.

GFEBS must take critical steps towards integration and implementation of the next generation of Enterprise Business Systems capabilities. This effort will address the obsolescence of existing SAP Enterprise Resource Planning (ERP) real property and financial management platforms that the vendor plans to sunset around FY 2028. GFEBS modernization work sets the conditions for development of a converged, post-modern Defense Business System that streamlines and integrates the Army's core business functions. The effort on the individual programs must consider benefits of consolidation.

GFEBS must identify redundant processes as candidates for business process re-engineering. Funding will support the 1) market research of Industry best practices, 2) Initiation of an Army Enterprise Development Environment to enable prototyping which reduces risk by aiding the requirements development. This environment includes: Cloud-hosted infrastructure, applications, and programs and tools, 3) government Program Management and Systems Engineering and Technical Assistance (SETA) contractors needed to plan for and manage the initiation of the post-modern system implementation effort.

B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	15.979	10.402	6.380	-	6.380
Current President's Budget	15.395	10.402	2.965	-	2.965
Total Adjustments	-0.584	0.000	-3.415	-	-3.415
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-0.584	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	-3.415	-	-3.415

Change Summary Explanation

FY 2024 funding decrease due to reduced functional planned RDT&E enhancements.

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	rmy							Date: Mar	ch 2023		
Appropriation/Budget Activity 2040 / 5											Number/Name) neral Fund Enterprise Business		
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	
DV6: General Fund Enterprise Business System	-	4.862	2.163	-	-	-	-	-	-	-	0.000	7.025	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

A. Mission Description and Budget Item Justification

DV6 - General Fund Enterprise Business System-Sensitive Activities (GFEBS-SA): GFEBS-SA is a National Security System (NSS) leveraging the GFEBS base system as the Army's core financial management system, certified by the Chief Financial Officer Council, to provide the same financial capabilities of GFEBS but on SIPR, with additional security features to protect national security information. GFEBS-SA was implemented to protect sensitive information and enable clean auditability, allowing the Army to process sensitive and classified financial transactions that cannot be processed in the fully-fielded GFEBS base system without compromising classified information, missions, or endangering soldiers. GFEBS-SA was developed and deployed as an essential financial program designed to enable the auditability that is needed to comply with the Chief Financial Officers (CFO) Act, the Federal Financial Management Improvement Act (FFMIA), and prevent compromise of data that could cause grave harm to U.S. forces. GFEBS-SA was fully deployed in 2020 to 3,000 users across 100 locations worldwide and processes Secret Collateral and below information. Services are capable of being upgraded throughout the life of the program in order to incorporate advances in best business practices and technology, and will modify capability to maintain a synchronized software baseline with the GFEBS base system to maintain efficiencies in capability enhancements, training documentation, and sustainment support. In FY 2021, GFEBS-SA received approval to proceed with entry into capability support (sustainment) and application capability support transitioned to Army Shared Services Center (ASSC). FY 2022 RDT&E funds supported system upgrades and enhancements, which re-synchronized the GFEBS-SA baseline with the GFEBS base system to account for any capability upgrades that were made to the base system while GFEBS-SA was in development. GFEBS and GFEBS-SA must remain synchronized to reduce sustainment costs through shared development acr

B. Accomplishments/Planned Programs (\$ in Millions)FY 2022FY 2023FY 2024*Title:* Software Development4.8622.084-*Description:* Software development includes all RDT&E activities related to the development of additional capabilities added into
GFEBS main that also require functionality in GFEBS-SA. This includes the systems engineering management, planning, and
blueprinting as well as the system integrator putting hands on keyboards to integrate the GFEBS solution into the Secret (SIPR)
environment to include developing the required interfaces to allow GFEBS-SA to interact with partner systems; and the hardware
and software tools necessary to facilitate development. After Full Deployment in FY 2021, RDT&E funding is required to allow
the GFEBS-SA system capability to remain synchronized with the base GFEBS system. GFEBS undertakes necessary efforts to
integrate, implement, and build the next generation of Enterprise Business Systems capabilities.FY 2023 Plans:

PE 0604822A: General Fund Enterprise Business System ... Army

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: M	arch 2023		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604822A / General Fund Enterprise Bu siness System (GFEBS)	Project (Number/Name) DV6 / General Fund Enterprise Busines System				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024	
In FY 2023, RDT&E funding will ensure continuing synchronization reduces sustainment costs through shared development across tw funds continue to support efforts to integrate sensitive activity capa	vo Enterprise Resource Planning (ERP) baselines. Addition					
FY 2023 to FY 2024 Increase/Decrease Statement: DV6 has no FY 2024 funding request						
Title: FY 2023 SBIR/STTR Transfer			-	0.079	-	
Description: Funding transferred in accordance with Title 15 USC	638.					
FY 2023 Plans: Funding transferred in accordance with Title 15 USC 638.						
FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC 638.						
	Accomplishments/Planned Programs Sub	totals	4.862	2.163	-	
 C. Other Program Funding Summary (\$ in Millions) N/A Remarks GFEBS-SA was fully deployed in FY 2021; therefore, there are no OMA - FY 2022 and beyond OMA dollars include funding for both maintenance, capability support, and capability enhancements. D. Acquisition Strategy Software was developed through a single build to achieve full capability 	ability. GFEBS-SA consists of a single software release de	includes livered i	s cloud hostin	ig, software/h eployment to	the Initial	
Operational Test and Evaluation (IOT&E) unit, followed by a full de full deployment and later received approval to proceed with entry i		IOT&E.	. In FY 2021,	GFEBS-SA	achieved	
The program will require modernization enhancements while in ca system transitioned to Army Shared Services Center in FY 2021.	apability support. Capability Support functions of all prioritize	ed syste	em enhancer	nents for GF	EBS-SA	

Appropriation/Budge		ost Analysis: PB 2	024 AIIII	у							1		March 20	23	
	et Activity	1					-	•	Number/N			(Number		wine Due	
2040 / 5							4822ATG System (G		Fund Enter	rprise Bu	System		ind Enterp	rise Bus	iness
Management Servic	es (\$ in M	illions)		FY 2022		FY 2023		FY 2024 Base		FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contrac
FY 2023 SBIR/STTR Transfer	TBD	Various : Various	-	-		0.079		-		-		-	0.000	0.079	-
		Subtotal	-	-		0.079		-		-		-	0.000	0.079	N/.
Product Developme	roduct Development (\$ in Millions)			FY 2	2022	FY 2	023		2024 ase	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Capability Enhancements	C/Various	Accenture Federal LLC : Alexandria, VA	-	4.862	Oct 2021	2.084	May 2023	-		-		-	0.000	6.946	-
		Subtotal	-	4.862		2.084		-		-		-	0.000	6.946	N/A
In FY 2022 GFEBS-SA sy		ement work utilized Arm					ion, test and st to Comple								
accreditation. In FY 2022 GFEBS-SA synthis support will take place Unified contract Base Peri	on a follow-o	ement work utilized Arm on contract.	y Shared S	Service Cent	ter Unified c	ontract. Co	st to Comple	ete assum			FY 2030.		Cost To	Total	Target Value of
In FY 2022 GFEBS-SA synthis support will take place	on a follow-o	ement work utilized Arm on contract. 21 through 30 April 202	y Shared S 2; Option P	Service Cent Period 1: 1 M	ter Unified c	ontract. Cc bugh 30 Apr FY 2	ist to Comple	ete assum	les a service	life through	FY 2030.	Some of	Complete	Cost	Target Value of Contract
In FY 2022 GFEBS-SA sy this support will take place Unified contract Base Peri	on a follow-o	ement work utilized Arm on contract.	y Shared S 2; Option P Prior	Service Cent	ter Unified c	ontract. Co bugh 30 Apr	ist to Comple	ete assum	nes a service	life through	FY 2030.	Some of 			Value o Contrac
In FY 2022 GFEBS-SA synthis support will take place	on a follow-o	ement work utilized Arm on contract. 21 through 30 April 202	y Shared S 2; Option P Prior	Service Cent Period 1: 1 M	ter Unified c	ontract. Cc bugh 30 Apr FY 2	ist to Comple	ete assum FY B	nes a service	life through FY 2 OC	FY 2030.	Some of FY 2024 Total	Complete	Cost	Value of

Exhibit R-4, RDT&E Schedule Profile: PB	2024 Army					Date: March 20)23
Appropriation/Budget Activity 2040 / 5		PE	Program Elemen 0604822A / Gener ss System (GFEB	ral Fund Enterpris		(Number/Name) eneral Fund Enterp	orise Business
Event Name	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
	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
Capability Support	Capability Support (OMA)						
Continuous Process & Product improvement	Continuous Process & Prøduo	t Improvements /PC					
Re-synchronization w/ GFEBS Baseline	Initial Re-synchronization w/ G						
	initial Re-synchronization write	orebo baseline (RE	12)				

hibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: Marc	h 2023			
propriation/Budget Activity 40 / 5	R-1 Program Element (Number/Name)Project (Number/Name)PE 0604822A / General Fund Enterprise Bu siness System (GFEBS)DV6 / General Fund Enterprise Bu System						
	Schedule Details						
	Sta	rt	E	nd			
Events	Quarter	Year	Quarter	Year			
Development	1	2019	4	2019			
ATP - Solution Development	4	2019	4	2019			
Current Contract	1	2020	3	2021			
Limited Deployment ATP	3	2020	3	2020			
Deployment	3	2020	1	2021			
Operational Testing	4	2020	4	2020			
Full Deployment ATP	4	2020	4	2020			
Full Deployment	1	2021	1	2021			
Capability Support ATP	2	2021	2	2021			
Transition to Army Shared Services Center (ASSC)	4	2021	4	2021			
Capability Support	3	2021	4	2028			
Continuous Process & Product improvement	3	2021	4	2023			
Re-synchronization w/ GFEBS Baseline	1	2022	3	2023			

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	rmy						Date: March 2023					
Appropriation/Budget Activity 2040 / 5						am Elemen 22A I Gener stem (GFEB	al Fund Ent	,		oject (Number/Name) 55 I General Fund Enterprise Business stem				
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		
GF5: General Fund Enterprise Business System	-	10.533	8.239	2.965	-	2.965	2.002	2.044	2.088	2.131	0.000	30.002		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

A. Mission Description and Budget Item Justification

GF5 - General Fund Enterprise Business System (GFEBS): GFEBS is the Army's core financial management system for administering its General Fund. Full Deployment was reached in 2012 and the system is currently in the Capability Support (sustainment) phase of the Business Capability Acquisition Cycle, focused on modernization, cyber security, and system enhancements while also conducting capability enhancements to meet policy and deliver a more accurate picture of Army financial awareness. GFEBS was implemented to fulfill the needs and enable the Army to comply with the Federal Financial Management Improvement Act, it is utilized by over 35,000 users across 200 locations worldwide. GFEBS was developed using a commercial off-the-shelf Enterprise Resource Planning system that is certified by the Chief, Financial Officer Council and provides six core financial functions (United States General Ledger (USGL), Cost Management, Funds Control, Payable Management, Real Property, Receivable Management and Reports).

GFEBS RDT&E funding in FY 2024 will continue to support the completion of the audit-related system enhancements which will give the Army an auditable financial system designed to meet audit readiness standards as outlined by the United States Government Accountability Office, as well as the continuation of system changes as prioritized by the functional sponsor and user community through the Tactical Financial Information Council, a Senior Executive Service/General Officer-level board. The FY 2024 funding will continue to support increases in mission performance and improvement of automatized system processes. Continue efforts to support modernization efforts aligned with the Original Equipment Manufacturer's Systems Applications and Products (SAP) next generation capability, activities include code de-customization, data enablement, and improved automated data access to prevent end of support for the current database and platform. Funds will also support acquisition trades and market research on alternatives for SAP based finance/logistics consolidation to evaluate potential efficiencies by reducing platforms and licenses.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Capability Enhancement	10.533	7.938	2.965
Description: Capability enhancements provide changes to the system that are needed to update the infrastructure to meet system requirements and best practices, and to support evolving statutory and regulatory requirements. The capability enhancement initiatives are needed to increase the GFEBS capability and performance to maintain compliance with Federal Financial Management Improvement Act (FFMIA), Business Enterprise Agency (BEA), Standard Financial Information Structure (SFIS) requirements, and Yellow Book auditability. These requirements are established and prioritized through a General Officer (GO)/Senior Executive Service (SES)-level Tactical Financial Information Council and Functional Governance Board.			
FY 2023 Plans:			

Exhibit R-2A, RDT&E Project Just	fication: PB	2024 Army							Date: Ma	arch 2023	
Appropriation/Budget Activity 2040 / 5				PE 06			er/Name) Enterprise Bu				lusiness
B. Accomplishments/Planned Prog	grams (\$ in I	<u> Millions)</u>							FY 2022	FY 2023	FY 2024
The RDT&E funds requested in FY 2 will provide the Army an auditable fir Government Accountability Office. T 8 Upgrades and G-Invoicing develop also continue to support the integration	nancial syster he FY 2023 F oment to impr	n designed t RDT&E will s ove system	o meet audi upport enha performance	t readiness s ncements, fo , accountab	standards as or example, ility, and auc	outlined by SAP Enhanc ditability effor	the United Sta ement Packa ts. The funds	ates ige s will			
FY 2024 Plans: The RDT&E funds requested in FY 2 will provide the Army an auditable fir Government Accountability Office. T interfaces to improve system perform integration and implementation of the	nancial syster he FY 2024 F nance, accou e next genera	n designed t RDT&E will s intability, and ation of Ente	o meet audi upport enha d auditability	t readiness s ncements, fo efforts. The	standards as or example, funds will al	outlined by system upgr	the United Sta ade in suppor	ates t			
FY 2023 to FY 2024 Increase/Decre Funding decreased in FY 2024 due			ined RDT&E	enhanceme	ents.						
Title: FY 2023 SBIR/STTR Transfer									-	0.301	-
Description: Funding transferred in	accordance	with Title 15	USC 638.								
FY 2023 Plans: Funding transferred in accordance w	/ith Title 15 U	SC 638.									
FY 2023 to FY 2024 Increase/Decr Funding transferred in accordance w											
				Accon	nplishment	s/Planned P	rograms Sub	ototals	10.533	8.239	2.965
C. Other Program Funding Summa	ary (\$ in Milli	ons)	EV 2024	EV 2024	EV 2024						
Line Item	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	FY 2025	FY 2026	FY 2027	FY 2028	<u>Cost To</u> Complete	Total Cost
• BE4168: General Fund Enterprise Business System	1.452	0.097	0.000	-	0.000	-	-	-	-	0.000	1.549
• OMA - GFEB APE 438001000 / 5T0: <i>GFEBS OMA</i>	83.079	58.069	53.629	-	53.629	51.218	50.909	51.569	51.754	Continuing	Continuing
PE 0604822A: <i>General Fund Enterpr</i> Army	ise Business	System		UNCLAS Page 9			R-1 Line #	115		Vol	ume 3c - 20

Exhibit R-2A, RDT&E Project Ju	stification: PB	2024 Army							Date: Ma	rch 2023	
Appropriation/Budget Activity 2040 / 5				PE 06	-		er/Name) Enterprise Bu	Project (N GF5 / Gen System		,	}usiness
C. Other Program Funding Sum	mary (\$ in Milli	<u>ons)</u>									
Line Item Remarks	FY 2022	FY 2023	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> Complete	<u>Total Cost</u>

OPA - FY 2023 Procurement dollars support new software upgrades to bring GFEBS reporting and analytics in-line with processing performance thresholds established in the GFEBS Authority to Proceed (ATP) and to modernize the system in order to remain current with new technology standards.

OMA - FY 2022 and beyond OMA dollars include funding for both GFEBS and GFEBS-SA programs. OMA-funded support includes cloud hosting, software/hardware maintenance, capability support, and capability enhancements.

D. Acquisition Strategy

GFEBS is currently in the Capability Support (sustainment) phase as specified in DoDI 5000.75. On 15 January 2018, the responsibility for system support of the GFEBS system transitioned from the original developer contract to a contract created to focus more on sustainment support and cost control. The current sustainment contract provides specific contracting methodologies to track all capability support functions as well as all the system enhancement requirements as set forth by the user community through the Tactical Financial Information Council; a Senior Executive Service/General Officer-level board that prioritizes user needs. Many of these enhancements require RDT&E funding as determined through a set of established business rules.

Capability Support functions of all prioritized system enhancements for GFEBS transitioned to Army Shared Services Center in 1Q FY 2022.

Exhibit R-3, RDT&E	-	•	2024 Arm	У									March 20)23	
Appropriation/Budge 2040 / 5	et Activity					PE 060		General F	lumber/Na Fund Enter			roject (Number/Name) iF5 / General Fund Enterp ystem			iness
Management Service	es (\$ in M	illions)		FY 2	2022	FY 2023			2024 ase	FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
FY 2023 SBIR/STTR Transfer	TBD	Various : Various	-	-		0.301		-		-		-	0.000	0.301	-
		Subtotal	-	-		0.301		-		-		-	0.000	0.301	N/A
Product Developme	nt (\$ in M	illions)		FY	2022	FY 2	2023		2024 ase	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Capability Enhancements	C/Various	Accenture Federal	-	10.533	Oct 2021	7.938	May 2023	2.965	May 2024	-		2.965	Continuing	Continuing	
		Subtotal	-	10.533		7.938		2.965		-		2.965	Continuing	Continuing) N/A
Remarks Beginning in FY 2022 GFE Unified contract Base Perio	-	021 through 30 April 202		Period 1: 1 M	/lay 2022 thi 2 022	rough 30 Ap		Ва	2024 ase	FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	-	10.533		8.239		2.965		-		2.965	Continuing	Continuing	, N/A
<u>Remarks</u>															

Exhibit R-4, RDT&E Schedule Profile: PB 2024 A	٩rmy	/																		Dat	te: N	/larc	h 20	23			
Appropriation/Budget Activity 2040 / 5							PE 0	6048	822A		ner	al Fu		er/Na Enterp			GF		Gen		ber/l Fun			orise	Bus	iness	S
Event Name		F	Y 2022	Τ	F	Y 20	23		FY	2024			FY	2025			FY	2026	5		FY	202	27		FY	2028	8
Event Name	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
Sustainment Contract w/ Capability Enhancement Task Orde	Susta	inme	nt Contract w	/ Caps	ability	Enhand	xement 1	Task Or	rder (O	urrent)																	
Capability Support transitioned to ASSC	apabili	ity Su	pport transiti	oned to	o AS	sc																					
Army Shared Services Sustainment w/ Capability Enhanceme		Ârm	y Shared Se	núbec (Suste	inment	w Cono		nhance	ment Or	otion	/Eolow	00)														
System Enhancements & Modernization FY22	Syste		hancements				w Capa		manoe	ment of	Juon	(- 0104-	ony														
System Enhancements & Modernization FY23				Syst	tem E	Enhance	ments &	Mode	mizatio	'n																	
System Enhancements & Modernization FY24								Syste	m Enh	ancemer	nts &	Modern	izatio	n													
System Enhancements & Modernization FY25												System	Enha	ancement	ts & I	Moder	nizatio	n									
System Enhancements & Modernization FY26															s	ystem	Enha	nceme	nts &	Mode	emizatio	on					
System Enhancements & Modernization FY27																				System	m Enh	ancer	ients &	Moder	mizatio	'n	
System Enhancements & Modernization FY28																								Systen	n Enhi	inceme	ents &
<u>Note</u>																											

System enhancements include prioritized capabilities based on functional needs in areas such as Audit Enablement and Compliance, Cash Accountability, Improved Funds Balance with Treasury, Cost of Army Operations, and Financial Reporting and Analytics.

PE 0604822A: General Fund Enterprise Business System ... Army

ibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: Marc	h 2023	
0/5 PE 06	Program Element (Number 604822A / General Fund Er s System (GFEBS)	· ·	ject (Number/Nam 5 I General Fund Er tem	,	
Schedule	e Details				
	Sta	art	End		
Events	Quarter	Year	Quarter	Year	
Map/Blueprint/Build Release 1.1	4	2005	3	2006	
MS B1	1	2008	1	2008	
Realization - Release 1.2	4	2006	1	2009	
IOC	3	2009	3	2009	
Release 1.3 - Replace STANFINS	1	2008	1	2011	
Full Deployment Decision Review	3	2009	3	2009	
Release 1.4: Replace SOMARDS	4	2008	1	2011	
Full Deployment Decision Review 2	1	2010	1	2010	
Hardware Fielding	1	2009	1	2011	
Full Deployment	4	2012	4	2012	
Sustainment Contract w/ Capability Enhancement Task Order (Current)	2	2018	2	2022	
Capability Support transitioned to ASSC	2	2022	2	2022	
Army Shared Services Sustainment w/ Capability Enhancement Option (Follow-c	on) 2	2022	4	2028	
Capability Enhancements FY18	1	2018	4	2018	
System Enhancements FY19	1	2019	4	2019	
System Enhancements FY20	1	2020	4	2020	
System Enhancements & Modernization FY21	1	2021	4	2021	
System Enhancements & Modernization FY22	1	2022	4	2022	
System Enhancements & Modernization FY23	1	2023	4	2023	
System Enhancements & Modernization FY24	1	2024	4	2024	
System Enhancements & Modernization FY25	1	2025	4	2025	
System Enhancements & Modernization FY26	1	2026	4	2026	

xhibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date	e: March 2023		
ppropriation/Budget Activity 040 / 5				Project (Number/Name) GF5 / General Fund Enterprise Bus System			
		Sta	art		End		
Events		Quarter Year 1 2027		Quart	ter Year		
System Enhancements & Modernization FY27				4	2027		
System Enhancements & Modernization FY28		1	2028	4	2028		

Exhibit R-2, RDT&E Budget Item	n Justificat	tion: PB 202	24 Army							Date: March 2023			
Appropriation/Budget Activity 2040: Research, Development, Te Development & Demonstration (Si	tem		am Elemen 27A / Soldie			m/Val							
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	-	6.219	19.408	11.333	-	11.333	7.338	9.862	14.174	10.206	Continuing	Continuing	
EY2: Integrated Soldier Power Data System - Core	-	4.165	12.559	4.598	-	4.598	4.699	4.705	4.755	4.808	Continuing	Continuing	
EY4: Universal Battery Charger	-	0.951	1.022	1.004	-	1.004	1.005	1.005	1.017	1.027	Continuing	Continuing	
FK4: Soldier Borne Sensor (SBS)	-	1.103	1.682	1.656	-	1.656	1.634	4.152	8.402	4.371	0.000	23.000	
S65: Platoon Power Generator	-	-	4.145	4.075	-	4.075	-	-	-	-	0.000	8.220	

A. Mission Description and Budget Item Justification

A portion of this funding line is a key enabler of the Army Modernization Priorities in support of the Small Unit Power (SUP) program.

This program element contains four active projects:

Project EY2 - Integrated Soldier Power Data System - Core: Supports development of the Integrated Soldier Power and Data Hub, Conformal Wearable Battery (CWB), Soldier and Squad Power Generation, platform power scavenging on the move, and Squad Power Manager (SPM). These capabilities fill the power and energy requirements for critical Integrated Tactical Network Soldier worn systems to include tactical leader radios, Nett Warrior, and the Integrated Visual Augmentation System (IVAS). These capabilities are critical enablers in closing the power and energy gaps created by the increase in mission essential, Soldier portable power consumers, GPS systems, weapon sensors, radios, night vision systems, and other devices.

Project EY4 - Universal Battery Charger (UBC): Supports development of the UBC and Bulk Charger (BC). These capabilities fill the power and energy requirements for critical Integrated Tactical Network Soldier worn systems to include tactical leader radios, Nett Warrior, and the Integrated Visual Augmentation System (IVAS). These capabilities are critical enablers in closing the power and energy gaps created by the increase in mission essential, Soldier portable power consumers, GPS systems, weapon sensors, radios, night vision systems and other devices by providing multiple charging solutions capable of providing power to handheld communication devices and military issued batteries.

Project FK4 - Soldier Borne Sensor (SBS): The SBS is a small unmanned aerial vehicle. The SBS provides a near term solution to three Army War-fighting Challenges at the Infantry Squad level: develop situational understanding, conduct air-ground reconnaissance, and conduct joint combined arms maneuver. The system is simple to deploy and use to support the squad leader's decision-making process. The system allows Soldiers to obtain local situational awareness and understanding of their immediate surroundings while remaining in covered or concealed positions. The SBS program will be procured through multiple phases. We will use the funding in this project to develop, integrate, and qualify additional capabilities for each phase. Funding in this project aligns with the Army's priorities in support of the National Defense Strategy.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
2040: Research, Development, Test & Evaluation, Army I BA 5: System	PE 0604827A I Soldier Systems - Warrior Dem/Val	
Development & Demonstration (SDD)		

S65 - Soldier Power: Soldier Power enables dismounted Soldiers to efficiently execute missions for longer durations by reducing the logistical burden associated with fuel and primary (disposable) batteries. Platoon Power Generation (PPG) - PM E2S2: This project supports the demonstration and development of a PPG. The Small Unit Power (SUP) PPG will provide small units with sufficient portable power to sustain Modified Table of Organizational Equipment (MTOE) unit power demand in support of 48 to 72 hour missions. It will be used for charging batteries and powering various types of Army communications and electronics devices.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	6.454	11.425	11.573	-	11.573
Current President's Budget	6.219	19.408	11.333	-	11.333
Total Adjustments	-0.235	7.983	-0.240	-	-0.240
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	8.000			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.235	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	-0.240	-	-0.240
FFRDC Transfer	-	-0.017	-	-	-

Congressional Add Details (\$ in Millions, and Includes General Reductions)	FY 2022	FY 2023
Project: EY2: Integrated Soldier Power Data System - Core		
Congressional Add: Conformal wearable battery	-	5.000
Congressional Add: Wearable fuel cell development	-	3.000
Congressional Add Su	btotals for Project: EY2 -	8.000
Congressional Ad	d Totals for all Projects -	8.000

Change Summary Explanation

Decreased funding to support higher Army priorities.

Exhibit R-2A, RDT&E Project Ju							Date: March 2023					
Appropriation/Budget Activity 2040 / 5					-	am Element 27A / Soldier	•	,	Project (Number/Name) EY2 I Integrated Soldier Power Data System - Core			
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
EY2: Integrated Soldier Power Data System - Core	-	4.165	12.559	4.598	-	4.598	4.699	4.705	4.755	4.808	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Integrated Soldier Power Data System - Core (ISPDS-C) includes power and data managing/distribution devices, cutting-edge energy storage solutions, and power scavenging devices. These capabilities fill the power and energy gaps created by the increase in mission essential, Soldier portable power consumers, such as heads up displays, situational awareness displays, global positioning systems, weapon sensors, radios, night vision systems, and other devices. This project line develops power sources and power management solutions for the individual Soldier and squad for use in all operating environments. ISPDS-C systems will enable dismounted Soldiers and squads to execute their missions more efficiently, independently, for longer durations and with fewer battery resupplies while reducing the logistical and physical burden associated with moving fuel and batteries. This project also develops and integrates vehicular on-the-move charging.

Justification: FY24 funding develops and evaluates capabilities to fill the power and energy requirements for critical Integrated Tactical Network Soldier worn systems to include tactical radios, assured position navigation and timing, Next Generation Squad Weapon, Nett Warrior, Enhanced Night Vision Goggle, and the Integrated Visual Augmentation System (IVAS).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Test and Evaluation	0.693	0.806	0.943
Description: Test and validate power and energy solutions from new battery chemistries, fuel cells, and scavenging devices and integrating the solutions using common interfaces with the Power and Data Hub and Squad Power Manager.			
<i>FY 2023 Plans:</i> Continue to develop and test new power distribution technology, characterize Soldier peripherals, improve current power source chemistries, and improve protective materials and integrate into functional battery packs and pouches.			
<i>FY 2024 Plans:</i> Continue to develop and test new power distribution technology, characterize Soldier peripherals, improve current power source chemistries, and improve protective materials and integrate into functional battery packs and pouches.			
FY 2023 to FY 2024 Increase/Decrease Statement: Silicone anode battery testing and increased fuel cell testing expected in FY 2024.			
Title: System Engineering & Program Management	0.203	0.826	0.601
Inte: System Engineering & Program Management	0.203	0.826	0.0

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army	Date: N	Date: March 2023			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / Soldier Systems - Warrior Dem/Val	Project (Number/I EY2 / Integrated S - Core	e r/Name) I Soldier Power Data System		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024	
Description: Conduct system engineering and project management for	ISDPS-C efforts and power characterization efforts.				
FY 2023 Plans: Continue to conduct system engineering, project management, and addid dismounted Soldier equipment and ISPDS-C efforts.	itional R&D center power characterization studies for				
FY 2024 Plans: Continue to conduct system engineering, project management, and addic characterization studies for dismounted Soldier equipment and ISPDS-C					
FY 2023 to FY 2024 Increase/Decrease Statement: Slight decrease as a result of reduced system engineering and project m	nanagement in FY 2024.				
Title: ISPDS-C/CWB Capability Improvements Integration		0.766	1.935	2.291	
Description: Evaluate higher energy density power and alternative energy	rgy solutions.				
FY 2023 Plans: Continued integration of alternative power technologies and higher energy Conduct battery chemistry development activities for advanced CWBs.	gy density batteries and cells for the dismounted Sole	dier.			
FY 2024 Plans: Continued integration of alternative power technologies and higher energy	gy density batteries and cells for the dismounted Solo	dier.			
FY 2023 to FY 2024 Increase/Decrease Statement: Increase in funding reflects planned lifecycle efforts.					
Title: Develop alternative CWB sources.		2.503	0.826	0.763	
Description: Develop alternative CWB sources.					
FY 2023 Plans: Continue to develop and evaluate incremental improvements in alternati and energy capacity. Conduct advanced fuel cell development.	ve power storage technologies to increase overall po	ower			
<i>FY 2024 Plans:</i> Continue to develop and evaluate incremental improvements in alternati and energy capacity.	ve power storage technologies to increase overall po	ower			
FY 2023 to FY 2024 Increase/Decrease Statement:					

Exhibit R-2A, RDT&E Project Jus	tification: PB	2024 Army							Date: Ma	rch 2023	
Appropriation/Budget Activity 2040 / 5					04827A / Sc	nent (Numb Idier System		Project (N EY2 / Inte - Core	i me) dier Power [Data System	
B. Accomplishments/Planned Pre	ograms (\$ in I	<u>Aillions)</u>						F	Y 2022	FY 2023	FY 2024
Decrease in funding reflects planne	ed lifecycle effo	orts.									
Title: SBIR/STTR									-	0.166	-
Description: Funding transferred in	n accordance	with Title 15	USC 638								
<i>FY 2023 Plans:</i> Funding transferred in accordance	with Title 15 U	SC 638									
FY 2023 to FY 2024 Increase/Dec Funding transferred in accordance											
				Accor	nplishment	s/Planned P	rograms Sub	ototals	4.165	4.559	4.598
							FY 2022	FY 2023			
Congressional Add: Conformal w	earable battery	/					-	5.000)		
FY 2023 Plans: Funding will be use Conformal Wearable Battery program		elopment of a	advanced ba	attery techno	logy in supp	ort of					
Congressional Add: Wearable fue	el cell developr	ment					-	3.000)		
FY 2023 Plans: Funding will be use weight, and manufacturing complex		elopment of v	wearable fue	el cell techno	logies to red	luce size,					
				Cong	ressional A	dds Subtota	als -	8.000)		
C. Other Program Funding Summ	nary (\$ in Milli	<u>ons)</u>	FY 2024	FY 2024	FY 2024					Cost To	
Line Item	FY 2022	<u>FY 2023</u>	Base	000	Total	<u>FY 2025</u>	FY 2026	<u>FY 2027</u>		Complete	
R08090: Integrated Soldier Power Data System - Core	5.947	6.725	6.703	-	6.703	7.870	6.496	6.500	6.506	0.000	46.747
<u>Remarks</u>											
D. Acquisition Strategy Pursue a variety of Soldier power p The type of solicitation depends or events, and if successful, selected	the maturity o	of the techno	logy. The po	ower initiative	es will be eva	aluated throu	igh scheduled	lab and/op	erational te	est and evalu	uation

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army	Date: March 2023	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
2040 / 5	PE 0604827A / Soldier Systems - Warrior	EY2 I Integrated Soldier Power Data System
	Dem/Val	- Core
acquisition strategy consists of two phases: Phase one includes the purchase contract through the Army Contracting Command (ACC) which maximizes cor	of test articles. Phase two establishes an Independent of the transition to production	efinite Delivery Indefinite Quantity (IDIQ)

Exhibit R-3, RDT&E I	Project C	ost Analysis: PB 2	2024 Army	/								Date:	March 2	023	
Appropriation/Budge 2040 / 5	et Activity	1					o gram Ele 4827A / S a/	-	t (Numbe ntegrated		ower Data	a Syster			
Management Service	es (\$ in M	illions)		FY 2	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value o Contrac
System Engineering & Program Management Support	MIPR	Various : Various	2.686	0.203	Feb 2022	0.826	Jan 2023	0.601	Jan 2024	-		0.601	Continuing	Continuing	-
		Subtotal	2.686	0.203		0.826		0.601		-		0.601	Continuing	Continuing	N/
Product Developme	nt (\$ in Mi	illions)		FY 2	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value o Contrac
ISPDS-C, CWB Capability Improvements Integration	MIPR	Various : Various	8.257	0.766			Feb 2023	2.291		-			•	Continuing	
Develop alternative CWB sources	MIPR	Various : Various	1.460	2.503	May 2022	3.826	Feb 2023	0.763	Feb 2024	-		0.763	Continuing	Continuing	-
		Subtotal	9.717	3.269		10.927		3.054		-		3.054	Continuing	Continuing	N/
Test and Evaluation	(\$ in Milli	ons)	ſ	FY 2	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contrac
Test and Evaluation	MIPR	Various : Various	1.995	0.693	Jul 2022		Mar 2023	0.943	Mar 2024	-		0.943		Continuing	
		Subtotal	1.995	0.693		0.806		0.943		-		0.943	Continuing	Continuing	N/.
			Prior Years	FY 2	2022	FY	2023		2024 ase		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value o Contrac
		Project Cost Totals	14.398	4.165		12.559		4.598		-		4.598	Continuing	Continuing	N/.

Remarks

Cost elements may contain multiple awards. In such cases, the latest award date is listed.

Exhibit R-4, RDT&E Schedule Profile: PB 2024	Arm	у																	Date	: Ma	rch 2	023		
Appropriation/Budget Activity 2040 / 5																Integ	(Number/Name) tegrated Soldier Power Data System							
Event Name		F	Y 20	22		FY	2023			FY 2	2024		F١	(2025		F١	Y 202	6	F	FY 20	027		FY 20	28
Lvont Name	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	3 4
Testing of Product Improvements																								
Develop, Evaluate, and Update Battery Technology																								
Increase Capacity/Alternate Power Source Development																								
Charging on the move development, test integration																								

hibit R-4A, RDT&E Schedule Details: PB 2024 Army					Date: Marc	ch 2023				
propriation/Budget Activity 40 / 5	–	ilement (Numbe Soldier Systems	,		Project (Number/Name) EY2 I Integrated Soldier Power Da Core					
	Schedule Details									
		Sta	art		E	nd				
Events		Quarter	Year	C	Quarter	Year				
Testing of Product Improvements		1	2020		4	2035				
Develop, Evaluate, and Update Battery Technology		2	2020		4	2035				
Increase Capacity/Alternate Power Source Development		4	2022		4	2035				

Exhibit R-2A, RDT&E Project Ju	Date: March 2023												
Appropriation/Budget Activity 2040 / 5					-	ram Element (Number/Name)Project (Number/Name)27A I Soldier Systems - WarriorEY4 I Universal Battery Charger							
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	
EY4: Universal Battery Charger	-	0.951	1.022	1.004	-	1.004	1.005	1.005	1.017	1.027	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

A. Mission Description and Budget Item Justification

Universal Battery Charger: Universal Battery Charger (UBC) fills the power and energy gap created by the increase in mission essential, Soldier portable power consumers, by providing a variety of charging solutions capable of providing power to handheld communication devices and military batteries to support mounted and dismounted formations. The UBC is suited for mounted and dismounted operations at the company level and below in multi-domain and austere operating environments. The system can draw power from wall outlets, vehicle power, generators, and solar power sources. The UBC enables dismounted Soldiers to execute their missions with fewer battery resupplies, thus reducing the logistical burden associated with moving fuel and batteries. The UBC capability allows dismounted Soldiers to operate independently for longer missions. The UBC fills the power and energy gap associated with bulk charging.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Test & Evaluation	0.951	0.757	0.735
Description: Develop and evaluate improved UBC products, including bulk charging and power on the move charging systems.			
FY 2023 Plans: Continue to evaluate improved UBC products, including bulk charging, and integrate platform on the move charging systems.			
FY 2024 Plans: Continue to evaluate improved UBC products, including bulk charging, and integrate platform power on the move charging systems.			
FY 2023 to FY 2024 Increase/Decrease Statement: Decrease due to initial developments of bulk charging capability ends in FY 2024, reducing the test and evaluation requirement for that year.			
Title: System Engineering & Program Management	-	0.228	0.269
Description: Description: Conduct system engineering and project management for UBC efforts.			
FY 2023 Plans: Conduct systems engineering, project management, and logistics management for UBC product line. FY 2024 Plans:			

2040 / 5 PE (B. Accomplishments/Planned Programs (\$ in Millions) Dem Conduct systems engineering, project management, and logistics management for U FY 2023 to FY 2024 Increase/Decrease Statement: Increase in logistics management requirements for UBC family of systems Title: SBIR/STTR Description: Funding transferred in accordance with Title 15 USC 638 FY 2023 Plans: Funding transferred in accordance with Title 15 USC 638 FY 2023 Plans:		,	-	t (Number/N Iniversal Ba FY 2022	Name) ttery Charger FY 2023 0.037	FY 2024 -
Conduct systems engineering, project management, and logistics management for U FY 2023 to FY 2024 Increase/Decrease Statement: Increase in logistics management requirements for UBC family of systems Title: SBIR/STTR Description: Funding transferred in accordance with Title 15 USC 638 FY 2023 Plans: Funding transferred in accordance with Title 15 USC 638	3C product line.			FY 2022		FY 2024
FY 2023 to FY 2024 Increase/Decrease Statement:Increase in logistics management requirements for UBC family of systemsTitle: SBIR/STTRDescription: Funding transferred in accordance with Title 15 USC 638FY 2023 Plans:Funding transferred in accordance with Title 15 USC 638	3C product line.			-	0.037	-
Increase in logistics management requirements for UBC family of systems <i>Title:</i> SBIR/STTR <i>Description:</i> Funding transferred in accordance with Title 15 USC 638 <i>FY 2023 Plans:</i> Funding transferred in accordance with Title 15 USC 638				-	0.037	
<i>Description:</i> Funding transferred in accordance with Title 15 USC 638 <i>FY 2023 Plans:</i> Funding transferred in accordance with Title 15 USC 638				-	0.037	-
<i>FY 2023 Plans:</i> Funding transferred in accordance with Title 15 USC 638						
Funding transferred in accordance with Title 15 USC 638						
FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC 638						
Acc	mplishments/Planned Pro	ograms Sul	btotals	0.951	1.022	1.004
C. Other Program Funding Summary (\$ in Millions)						
<u>FY 2024</u> FY 2024 Line Item FY 2022 FY 2023 Base OCC	<u>FY 2024</u> <u>Total</u> <u>FY 2025</u>	<u>FY 2026</u>	FY 2027			Total Cost
R09103: Universal Battery Charger 11.868 9.208 9.264 - Remarks	9.264 7.773	7.506	7.51 <i>′</i>	1 7.51	8 0.000	60.648

D. Acquisition Strategy

Contracts will be awarded to test, evaluate, and procure the next generation battery chargers to meet the increased power demand on the Soldier. The PM will initiate efforts to establish a new competitively awarded multiple award IDIQ contract no earlier than FY 2024 through the Army Contracting Command (ACC) Aberdeen Proving Grounds.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	024 Arm	y								Date:	March 20)23	
Appropriation/Budg 2040 / 5	et Activity	1	R-1 Program Element (Number/Name)Project (NPE 0604827A / Soldier Systems - WarriorEY4 / UniDem/ValEY4 / Uni							•		arger			
Management Servic	es (\$ in M	illions)	ſ	FY	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering/ Program Management Support	MIPR	Various : Various	0.877	-		0.228	Jan 2023	0.269	Jan 2024	-		0.269	Continuing	Continuing	-
		Subtotal	0.877	-		0.228		0.269		-		0.269	Continuing	Continuing	N/A
Test and Evaluation	(\$ in Milli	ons)		FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation	MIPR	Various : Various	4.247	0.951	Aug 2022	0.794	Feb 2023	0.735	Mar 2024	-		0.735	Continuing	Continuing	-
		Subtotal	4.247	0.951		0.794		0.735		-		0.735	Continuing	Continuing	N/A
			Prior Years	FY	2022	FY	2023		2024 Ise		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	5.124	0.951		1.022		1.004		-		1.004	Continuing	Continuing	N/A

Remarks

Cost elements may contain multiple awards. In such cases, the latest award date is listed.

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army Date: March 2023											
Appropriation/Budget Activity 2040 / 5			Program Elemen 604827A / Soldie /Val		Number/Name) iversal Battery Charger						
-	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028				
Event Name	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				
Test and evaluate new CWB charging cups											
Develop and evaluate charging on-the-move capabilities											
Battery charger performance improvements Phase 2											
UBC vehicle integration											
Evaluation of modernized battery chargers Phase 2											
UBC Power Upgrades											

hibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Mar	ch 2023	
propriation/Budget Activity 40 / 5		Element (Numbe I Soldier Systems		Project (Number/Na EY4 / Universal Batte	,	
	Schedule Details	5				
		St	art	End		
Events		Quarter	Year	Quarter	Year	
Test and evaluate new CWB charging cups		1	2022	3	2022	
Develop and evaluate charging on-the-move capabilities		1	2021	4	2027	
Battery charger performance improvements Phase 2		1	2022	4	2026	
UBC vehicle integration		2	2022	4	2023	
Evaluation of modernized battery chargers Phase 2		3	2022	4	2026	

1

UBC Power Upgrades

2027

4

2028

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	rmy							Date: Mar	ch 2023	
Appropriation/Budget Activity 2040 / 5						am Elemen 27A / Soldie	•	,	Project (Number/Name) FK4 / Soldier Borne Sensor (SBS)			
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
FK4: Soldier Borne Sensor (SBS)	-	1.103	1.682	1.656	-	1.656	1.634	4.152	8.402	4.371	0.000	23.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Buc Project FK4 - Soldier Borne Sens at the Infantry Squad level: devel to deploy and use to support the immediate surroundings while re project to develop, integrate, and	sor (SBS): op situation squad lead maining in c	The SBS is a al understan er's decisior covered or c	a small unn nding, cond n-making pr oncealed p	luct air-grou ocess. The ositions. Th	nd reconna system allo	issance, an ws Soldiers	d conduct jo to obtain lo	oint combin ocal situatio	ed arms ma nal awarene	neuver. Thess and un	e system is s derstanding o	imple of their

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Soldier Borne Sensor (SBS)	1.103	1.621	1.656
Description: The SBS provides the squad a "quick look" capability providing Situational Awareness (SA).			
<i>FY 2023 Plans:</i> This program will develop and test Phase 2 systems with improved-thermal imager, battery life, and interoperability. The program will incorporate advanced obstacle avoidance, autonomous behaviors, edge processing, and novel battery chemistries. The program will integrate S&T portfolio work on efficient target detection. Additionally, the program plans to integrate SBS with systems such as Enhanced Night Vision Goggle - Binocular (ENVG-B) and Integrated Visual Augmentation System (IVAS).			
<i>FY 2024 Plans:</i> This program will complete the development and testing of Phase 2 systems. This program will continue to incorporate and test advanced obstacle avoidance, autonomous behaviors, edge processing, Robotics and Autonomous Systems - Air (RAS-A) interoperability, and novel battery chemistries. The program will continue to integrate S&T portfolio work on efficient target detection, and to integrate SBS with systems such as Enhanced Night Vision Goggle - Binocular (ENVG-B) and Integrated Visual Augmentation System (IVAS).			
FY 2023 to FY 2024 Increase/Decrease Statement: The increase in funding from FY2023 to FY2024 represents the planned lifecycle of the effort.			
Title: SBIR/STTR Transfer	-	0.061	-
Description: Funding transferred in accordance with Title 15 USC 638			
		I	

Exhibit R-2A, RDT&E Project Ju	stification: PB	2024 Army							Date: Ma	arch 2023	
Appropriation/Budget Activity 2040 / 5					04827A / Sc	nent (Numb Idier System			Number/Na Idier Borne	ame) Sensor (SBS	5)
B. Accomplishments/Planned P	rograms (\$ in I	<u>Millions)</u>						F	Y 2022	FY 2023	FY 2024
FY 2023 Plans: Funding transferred in accordance	e with Title 15 U	SC 638									
FY 2023 to FY 2024 Increase/De Funding transferred in accordance											
				Accon	nplishment	s/Planned P	rograms Su	Ibtotals	1.103	1.682	1.656
C. Other Program Funding Sum	mary (\$ in Milli	ons)									
	2 (<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>					Cost To	
Line Item	<u>FY 2022</u>	<u>FY 2023</u>	<u>Base</u>	000	<u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Complete</u>	Total Cost
• W63798: Soldier Borne Sensor (SBS)	18.654	20.376	22.565	-	22.565	21.959	-	-	12.732	Continuing	Continuing
Remarks											

D. Acquisition Strategy

The program will evaluate potential improved phase 2 systems as well as options to fund hardware and software developments that support advanced autonomy and interoperability in FY24 and beyond.

Appropriation/Budg 2040 / 5	et Activity	/					4827A / S		umber/Na vstems - N			(Numbe r oldier Bor	r /Name) me Sensol	r (SBS)	
Management Servic	es (\$ in N	lillions)	ſ	FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Admin (PMA)	MIPR	ASC : Ft Belvoir	0.204	0.075	Mar 2022	0.077	Jan 2023	0.080	Jan 2024	-		0.080	0.000	0.436	-
		Subtotal	0.204	0.075		0.077		0.080		-		0.080	0.000	0.436	N/A
Product Developme	nt (\$ in M	illions)		FY	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Phase 2 Prototype	C/FFP	Vantage Robotics : San Leandro, CA 95577	1.948	0.200	Jan 2022	0.489	Feb 2023	0.322	Feb 2024	-		0.322	0.000	2.959	2.534
Phase 2 Prototype	C/FFP	Teledyne FLIR : Wilsonville, OR 97070	-	0.158	Jan 2022	0.249	Feb 2023	0.322	Feb 2024	-		0.322	0.000	0.729	-
Autonomy and Interoperability Development and Integration	TBD	Various : Various	-	0.421	Aug 2022	0.085	Feb 2023	0.134	Nov 2023	-		0.134	0.000	0.640	-
		Subtotal	1.948	0.779		0.823		0.778		-		0.778	0.000	4.328	N/A
• • • • • • • • • • • • • • • • • • •			Γ					FY	2024	FY	2024	FY 2024]		
Support (\$ in Million	IS)			FY 2	2022	FY 2	2023		ise		co	Total			-
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	Various	Various : Multiple	0.418	0.032	Aug 2022	-		0.080	Nov 2023	-		0.080	0.000	0.530	-
		Subtotal	0.418	0.032		-		0.080		-		0.080	0.000	0.530	N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2024 Arm	y								Date:	March 20	23	
Appropriation/Budge 2040 / 5	et Activity	1					4827A / S	•	lumber/Na /stems - V			t (Numbe i Coldier Bor	r/ Name) me Senso	r (SBS)	
Test and Evaluation	(\$ in Milli	ons)		FY	2022	FY :	2023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Phase 2- Technology Integration and Testing	TBD	Various : Various	0.303	0.217	Nov 2021	0.782	Feb 2023	0.718	Nov 2023	-		0.718	0.000	2.020	-
		Subtotal	0.303	0.217		0.782		0.718		-		0.718	0.000	2.020	N/A
			Prior Years	FY	2022	FY :	2023		2024 ase		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	2.873	1.103		1.682		1.656		-		1.656	0.000	7.314	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 /	Army													Da	ate: Marc	ch 202	23	
Appropriation/Budget Activity 2040 / 5					PE)4827	m Elemo 'A / Solo					Project (FK4 / So				r (SBS)	
Event Name			2022		Y 2023			Y 2024		FY	2025		FY 2026		FY 202			2028
Phase 2 - Technology Improvements, Integration and Testing	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
Phase 3 - Development	Phase	2 - Imp	rovements	& Integrai	lion													
Phase 3 - Production Award (MS 1)											Phas	e 3 - Dev	velopment, Integ	ration 8	& Testing			
Phase 3 - System Technology Improvements and Integration																	Phase 3 (N	e 3 - Improv
												1						

xhibit R-4A, RDT&E Schedule Details: PB 2024 Army					Date: March	า 2023
ppropriation/Budget Activity 040 / 5	R-1 Program Elem PE 0604827A / Sol Dem/Val				u mber/Nam er Borne Se	,
	Schedule Details					
		St	art		En	d
Events						u
Lvents		Quarter	Year	Q	uarter	Year
Phase 2 - Technology Improvements, Integration and Testing		Quarter 3	Year 2020	Q		
				Q		Year
Phase 2 - Technology Improvements, Integration and Testing		3	2020	Q		Year 2025

Exhibit R-2A, RDT&E Project Ju	stification	PB 2024 A	Army							Date: Marc	ch 2023	
Appropriation/Budget Activity 2040 / 5					R-1 Progra PE 060482 <i>Dem/Val</i>		•		Project (N S65 / Plato			
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
S65: Platoon Power Generator	-	-	4.145	4.075	-	4.075	-	-	-	-	0.000	8.220
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Platoon Power Generation - PM E2S2: This project supports the demonstration and development of Platoon Power Generation (PPG). PPG will provide small units with portable power to sustain Modified Table of Organizational Equipment (MTOE) unit power demand in support of 48 to 72 hour missions. It will be used for charging batteries and powering various types of Army communications and electronics devices. It will provide sufficient power to recharge and power all Platoon equipment and fulfill residual power gaps at the Squad and Soldier level. The generator will provide Platoon power for charging batteries when away from vehicles in all Brigade Combat Teams (Stryker, Armor and Infantry), Rangers and Special Forces in austere environments.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: S65-Platoon Power Generator	-	3.993	4.075
Description: Utilize Small Business Innovation Research (SBIR) Phase III contract vehicle to develop and test prototypes.			
FY 2023 Plans: Award Phase III contract to develop initial design and fuel cell prototypes in the range of 1.5-2kW to mature technology and reduce risk.			
FY 2024 Plans: Optimize fuel cell prototype design based on user feedback and improve upon prototypes to prepare the system for test and evaluation.			
FY 2023 to FY 2024 Increase/Decrease Statement: FY24 funding increase to optimize prototypes based on Soldier feedback to prepare the system for developmental testing and commercialization.			
Title: SBIR/STTR transfer	-	0.152	-
Description: Funding transferred in accordance with Title 15 USC 638			
<i>FY 2023 Plans:</i> Funding transferred in accordance with Title 15 USC 638			
FY 2023 to FY 2024 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justif	ication: PB	2024 Army							Date: Ma	arch 2023	
Appropriation/Budget Activity 2040 / 5					r ogram Eler 04827A / Sc /al	•	,	-	t (Number/Na Platoon Power		
B. Accomplishments/Planned Prog	rams (\$ in I	<u>/lillions)</u>						Γ	FY 2022	FY 2023	FY 2024
Funding transferred in accordance wi	th Title 15 U	SC 638									
				Accon	nplishments	s/Planned P	rograms Su	btotals	-	4.145	4.075
C. Other Program Funding Summar	ry (\$ in Milli	<u>ons)</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>					<u>Cost To</u>	
Line Item	FY 2022	FY 2023	Base	000	<u>Total</u>	<u>FY 2025</u>	FY 2026	FY 202	7 <u>FY 2028</u>	Complete	Total Cost
R08090: Integrated Soldier Power Data System - Core	5.947	6.725	6.703	-	6.703	7.870	6.496	6.50	6.506	0.000	46.747
• R09103: Universal Battery Charger	11.868	9.208	9.264	-	9.264	7.773	7.506	7.51	1 7.518	0.000	60.648
• EY2: Integrated Soldier Power Data System - Core	4.165	12.559	4.598	-	4.598	4.699	4.705	4.75	4.808	Continuing	Continuing
• EY4: Universal Battery Charger	0.951	1.022	1.004	-	1.004	1.005	1.005	1.01	7 1.027	Continuing	Continuing
Remarks										-	-

D. Acquisition Strategy

PEO CS/CSS Effort on the Platoon Power Generation - PM E2S2: Small Business Innovation Research (SBIR) Phase III contract vehicle will be awarded in FY23 to develop and test prototypes. The prototypes will be optimized based on user feedback, tested, and incorporated into soldier touch points. The results of the contract, testing and soldier touch points will inform the Milestone C Low Rate Initial Production decision.

Performing ctivity & Location M E2S2 : Fort elvoir, VA AR : VAR	Prior Years	FY 2	022										
ctivity & Location M E2S2 : Fort elvoir, VA			.022	FY 2	023	FY 2 Ba	-		2024 CO	FY 2024 Total			
M E2S2 : Fort elvoir, VA		Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AR : VAR	0.764	-		0.750	Mar 2023	0.750	Feb 2024	-		0.750	Continuing	Continuing	Continuing
	-	-		0.152		-		-		-	0.000	0.152	-
Subtotal	0.764	-		0.902		0.750		-		0.750	Continuing	Continuing	N/A
ons)		FY 2	2022	FY 2	023		-			FY 2024 Total			
Performing ctivity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
catinny : ontractor Sites	9.358	-		2.848	May 2023	1.415	Feb 2024	-		1.415	Continuing	Continuing	Continuing
Subtotal	9.358	-		2.848		1.415		-		1.415	Continuing	Continuing	N/A
		FY 2	2022	FY 2	000		024	FY	2024	FY 2024			
				FT 4	023	Ba	se		CO	Total			
Performing ctivity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Ba Cost	se Award Date				Cost To Complete	Total Cost	Target Value of Contract
Performing ctivity & Location PG : APG		Cost -		Cost	Award	Cost	Award	0	CO Award	Total Cost		Cost	Value of Contract
ctivity & Location	Years	Cost - -		Cost	Award Date	Cost	Award Date	O Cost	CO Award	Total Cost 0.410	Complete	Cost Continuing	Value of Contract Continuing
ctivity & Location PG : APG	Years 3.419	-	Date	Cost 0.395	Award Date Aug 2023	Cost 0.410	Award Date Feb 2024	Cost - - FY 2	CO Award	Total Cost 0.410	Complete Continuing	Cost Continuing	Value of Contract Continuing
ctivity & Location PG : APG Subtotal	Years 3.419	-	Date	Cost 0.395 0.395	Award Date Aug 2023	Cost 0.410 0.410 FY 2	Award Date Feb 2024	Cost - - FY 2	CO Award Date	Total Cost 0.410 0.410	Complete Continuing	Cost Continuing	Value of Contract Continuing
ctivity & Location PG : APG Subtotal S) Performing	Years 3.419 3.419 Prior	- - FY 2	Date 2022 Award	Cost 0.395 0.395 FY 2	Award Date Aug 2023 023 Award	Cost 0.410 0.410 FY 2 Ba Cost	Award Date Feb 2024	Cost - - FY 2 00	CO Award Date 2024 CO Award	Total Cost 0.410 0.410 FY 2024 Total Cost	Complete Continuing Continuing Cost To	Cost Continuing Continuing Total Cost	Value of Contract Continuing N/A Target Value of Contract
с с	Performing tivity & Location atinny : ntractor Sites	Performing tivity & Location Prior Years atinny : ntractor Sites 9.358	Performing tivity & Location Prior Years Cost atinny : ntractor Sites 9.358 - Subtotal 9.358 -	Performing tivity & LocationPrior YearsAward Costatinny : ntractor Sites9.358-	Performing tivity & LocationPrior YearsAward CostCostatinny : ntractor Sites9.358-2.848Subtotal9.358-2.848	Performing tivity & LocationPrior YearsAward CostAward DateAward Dateatinny : ntractor Sites9.358-2.848May 2023Subtotal9.358-2.848	ns)FY 2022FY 2023BaPerforming tivity & LocationPrior YearsAward CostAward DateAward CostAward DateCostatinny : ntractor Sites9.358-2.848May 20231.415Subtotal9.358-2.8481.415	Performing tivity & LocationPrior YearsAward CostAward DateAward CostAward DateAward DateAward Date1000000000000000000000000000000000000	Performing tivity & Location Prior Years Cost Award Date Award Cost Award Date Cost Award Date Cost Award Cost Cost Cost Award Date Cost Cost <thc< td=""><td>Performing tivity & Location Prior Years Award Cost Award Date Award Cost Award Date Award Cost Award Date Award Cost Award Date Award Date Award Date atinny : htractor Sites 9.358 - 2.848 May 2023 1.415 Feb 2024 - Subtotal 9.358 - 2.848 1.415 - -</td><td>Insymptotic FY 2022 FY 2023 Base OCO Total Performing tivity & Location Prior Years Cost Award Date Award Date Award Date Award Date Award Cost Award Date Award Cost Award Date Award Cost Image: Cost Award Date Award Cost Image: Cost Award Date Image: Cost Image: Cost Award Date Image: Cost Image: Cost</td><td>ITS) FY 2022 FY 2023 Base OCO Total Performing tivity & Location Prior Years Cost Award Date Cost Award Date Award Cost Award Date Cost Amard Date Cost Cost Amard Date Cost Cost Date Cost <th< td=""><td>ITS) FY 2022 FY 2023 Base OCO Total Performing tivity & Location Prior Years Cost Award Date Cost Award Date Cost Award Date Cost C</td></th<></td></thc<>	Performing tivity & Location Prior Years Award Cost Award Date Award Cost Award Date Award Cost Award Date Award Cost Award Date Award Date Award Date atinny : htractor Sites 9.358 - 2.848 May 2023 1.415 Feb 2024 - Subtotal 9.358 - 2.848 1.415 - -	Insymptotic FY 2022 FY 2023 Base OCO Total Performing tivity & Location Prior Years Cost Award Date Award Date Award Date Award Date Award Cost Award Date Award Cost Award Date Award Cost Image: Cost Award Date Award Cost Image: Cost Award Date Image: Cost Image: Cost Award Date Image: Cost Image: Cost	ITS) FY 2022 FY 2023 Base OCO Total Performing tivity & Location Prior Years Cost Award Date Cost Award Date Award Cost Award Date Cost Amard Date Cost Cost Amard Date Cost Cost Date Cost Cost <th< td=""><td>ITS) FY 2022 FY 2023 Base OCO Total Performing tivity & Location Prior Years Cost Award Date Cost Award Date Cost Award Date Cost C</td></th<>	ITS) FY 2022 FY 2023 Base OCO Total Performing tivity & Location Prior Years Cost Award Date Cost Award Date Cost Award Date Cost C

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	024 Arm	у				Date:	March 20	023	
Appropriation/Budget Activity 2040 / 5			-	ilement (Number/ Soldier Systems -		c t (Numbe Platoon Po		erator	
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	14.881	-	4.145	4.075	-	4.075	Continuing	Continuing	N/A

Remarks

chibit R-4, RDT&E Schedule Profile: PB 2 opropriation/Budget Activity 40 / 5		PE		nt (Number/Name) er Systems - Warrior		Date: March 202 Jumber/Name) oon Power Genera	
Event Name	FY 2022 1 2 3 4	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
nitial system design and prototyping	1 2 3 4		+ 1 2 3 4		2 3 4	1 2 3 4	
Design optimization and improved prototypes			-				
est and Evaluation							
lilestone C					4		
ystem improvements and integration							

nibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Marc	ch 2023
propriation/Budget Activity 40 / 5	R-1 Program Eleme PE 0604827A / Soldi Dem/Val			Project (Number/Nam S65 / Platoon Power G	
	Schedule Details				
		Sta	rt	E	nd
Events	Q	uarter	Year	Quarter	Year
					Tear
Initial system design and prototyping		2	2023	2	2024
Initial system design and prototyping Design optimization and improved prototypes			2023 2024	2 3	
		2			2024
Design optimization and improved prototypes		2 3	2024		2024 2025

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army											Date: March 2023			
Appropriation/Budget Activity 2040: Research, Development, Te Development & Demonstration (S	em		am Elemen 52A / Suite c	•	ems - EMD									
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2027	FY 2028	Cost To Complete	Total Cost			
Total Program Element	-	93.207	100.384	79.250	-	79.250	79.688	79.784	80.635	81.535	0.000	594.483		
FE8: Vehicle Protection Suite	-	93.207	100.384	79.250	-	79.250	79.688	79.784	80.635	81.535	0.000	594.483		

A. Mission Description and Budget Item Justification

This funding line is a key enabler of the Army Modernization Priorities in support of the Vehicle Protection Suite (VPS) program.

Current ground combat vehicle platforms and tactical wheeled vehicles within Army Brigade Combat Teams (BCTs) lack the ability to effectively detect, track, divert, disrupt, neutralize, or destroy incoming direct or indirect fired threat munitions. Current solutions to defeat these threats, Explosive Reactive Armor (ERA) and Slat armor, do not provide preemptive or active protection and impose secondary blast hazards to crew, dismounted soldiers, and adjacent vehicles and equipment. The Suite of Vehicle Protection Systems will develop mature and integrate solutions onto multiple ground combat vehicles increase the protection of the Army's ground systems from both current and next generation direct or indirect fired threat munitions.

The Vehicle Protection Suite (VPS) Project (FE8) will design, mature, integrate, evaluate and field combinations of active, reactive, and passive solutions and leverage both Horizontal Technology Integration (HTI) principles and the Army's Vehicle Base Kit (VBK) to develop tailored vehicle Survivability Sets that will mitigate existing protection gaps, allow for future technology insertion to meet evolving threats, and minimize the impact to the current capabilities hosted on Army ground system platforms. Additionally, the VPS project will install and characterize Non-Developmental Item (NDI) Active Protection Systems on Bradley, and Stryker demonstrator vehicles. The Active Protection System effort will assess the maturity, performance, and integration risk of NDI Active Protection Systems, develop, and refine Bradley, and Stryker Active Protection System installation kit designs, and build prototypes necessary to conduct performance and safety testing to obtain an Active Protection System Urgent Materiel Release (UMR). Active Protection System effort will execute installation design refinement and required testing to meet urgent fielding of NDI APS on Bradley and Stryker pending Army leadership approval.

B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	96.132	109.702	99.525	-	99.525
Current President's Budget	93.207	100.384	79.250	-	79.250
Total Adjustments	-2.925	-9.318	-20.275	-	-20.275
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-9.318			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-2.925	-			
SBIR/STTR Transfer	-	-			
Adjustments to Budget Years	-	-	-20.275	-	-20.275

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army Date						
Appropriation/Budget Activity R-1 Program Element (Number/Name) 2040: Research, Development, Test & Evaluation, Army I BA 5: System PE 0604852A I Suite of Survivability Enhancement System Development & Demonstration (SDD) PE 0604852A I Suite of Survivability Enhancement System						
Congressional Add Details (\$ in Millions, and Includes General F	Reductions)	FY 2022	FY 202			
Project: FE8: Vehicle Protection Suite	-	L				
Congressional Add: Bradley Family of Vehicles (BFV) Active Proc	tection System	16.000				
	Congressional Add Subtotals for Project: FE8	16.000				
	Congressional Add Totals for all Projects	16.000				
Change Summary Explanation						
Decreased funding due to higher Army priorities						

Exhibit R-2A, RDT&E Project Ju	Date: March 2023											
Appropriation/Budget Activity 2040 / 5		R-1 Progra PE 060485 cement Sy	52A I Suite o	of Survivabil	•	Project (Number/Name) FE8 / Vehicle Protection Suite						
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
FE8: Vehicle Protection Suite	-	93.207	100.384	79.250	-	79.250	79.688	79.784	80.635	81.535	0.000	594.483
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Current ground combat vehicle platforms and tactical wheeled vehicles within Army Brigade Combat Teams (BCTs) lack the ability to effectively detect, track, divert, disrupt, neutralize, or destroy incoming direct or indirect fired threat munitions. Current solutions to defeat these threats, Explosive Reactive Armor (ERA) and Slat armor, do not provide preemptive or active protection and impose secondary blast hazards to crew, dismounted soldiers, and adjacent vehicles and equipment.

Vehicle Protection Suite (VPS) will design, mature, integrate, evaluate, and field combinations of active, reactive, and passive solutions and leverage both Horizontal Technology Integration (HTI) principles and the Army's Vehicle Protection System Base Kit (VBK) to develop configurable vehicle Survivability Sets that will mitigate existing protection gaps, allow for future technology insertion to meet evolving threats, and minimize the impact to the current capabilities hosted on Army ground combat and tactical vehicle platforms.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Vehicle Protection System Base Kit Integration of Non-Developmental Items (NDI) and Developmental Technologies	41.251	55.136	46.475
Description: VBK with Laser Warning Receiver (LWR) effort to incorporate on to the ground combat vehicle platforms the LWR through the Vehicle Protection System (VPS) Base Kit based on the Modular Active Framework (MAF). The maturation and integration effort will include qualification testing, integration design development, prototype build, and platform testing and logistics products.			
FY 2023 Plans: Complete VBK with LWR integration on the Bradley and Abrams platforms and continue integration design efforts, to include integration design development, platform prototype build, and logistics products development for the Stryker, Mobile Protected Firepower (MPF) and AMPV. Begin ATEC Developmental and Operational Testing on the Bradley and Abrams.			
FY 2024 Plans: On Bradley and Abrams, complete VBK with LWR vehicle level testing, logistic product development and complete ATEC developmental and operational testing (DT/OT). Continuing VBK with LWR integration design efforts on AMPV, Stryker and MPF, which includes integration design development, platform prototype build, and logistics products development, and begin ATEC Developmental and Operational Test planning.			
FY 2023 to FY 2024 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023					
Appropriation/Budget Activity 2040 / 5	Project (Number/Name) FE8 / Vehicle Protection Suite						
B. Accomplishments/Planned Programs (\$ in Millions) Funding decrease is due to completing the maturation activities and AMPV, Stryker, and MPF platforms.	focused on continuing VBK with LWR integration activitie		FY 2022	FY 2023	FY 2024		
Title: Survivability Improvements			27.075	32.000	18.843		
Description: Funding for the continued maturation of Science and maturation, design development of the platform integration, test, log passive survivability improvements onto ground combat vehicle plat	istic product development, and fielding of active, reactive						
FY 2023 Plans: Start the VPS base kit product enhancements maturation efforts. Co development, testing, and logistic product development on ground of to continue system maturation to support future integration activities improvement assessments, testing, and characterization/demonstratechnologies. Continue execution of Bradley expedited active protect Release (UMR) activities.	combat platforms. Begin interim Soft Kill acquisition progra on ground combat platforms. Continued engineering stu- tions of Active Protection systems and other emerging	dies,					
FY 2024 Plans: Continue passive and reactive armor tile engineering development, combat platforms. Continue interim Soft Kill acquisition program for on ground combat platforms. Continued engineering studies, chara B-kit development, platform integration, and testing of Active Protect Obscuration (CCDO) (Signature Management (SIGMAN)) and other expedited active protection system to include system-level testing, U Release, and delta A Kit development to support MAF compliant system.	system maturation to support future integration activities cterization / demonstrations, improvement assessments, tion Systems, Camouflage, Concealment, Deception and emerging technologies. Continue execution of Bradley JMR activities, planning to support future Conditional Mat						
FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease is due to projected reduction in cost and delayed FY25.	initiation of the Soft Kill Acquisition Program of Record un	ntil					
Title: Vehicle Protection Suite Government Engineering and Progra	m Management		5.931	9.584	10.869		
Description: Government program management support and progr	am oversight.						
FY 2023 Plans: Funding is provided for program management support for continued to include VPS Base Kits (VBK) w/LWR, Survivability	VPS efforts/integration onto multiple ground combat veh	icles					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023				
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604852A / Suite of Survivability Enhan cement Systems - EMD	Project (Number/Name) FE8 / Vehicle Protection Suite					
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024		
Improvements (RAT and Signature Management (CCDO)), trade stu development.	dies, platform integration, vehicle testing, and logistic pro	oduct					
FY 2024 Plans: Funding is provided for program management support for VPS progr Improvements (RAT and Signature Management (CCDO)), trade stu development.	· · · ·	-					
FY 2023 to FY 2024 Increase/Decrease Statement: Funding increase is to support the new efforts in Survivability Improv assessment.	rements, VBK w/LWR, and trade study analysis and feas	sibility					
Title: VPS Trade Study			2.950	-	3.063		
Description: VPS will execute a trade study/feasibility assessment to protection solutions, to pursue in the next phase of the program (Future provide the data deemed sufficient for the identification of capabilities assessment will build off previous studies to identify the benefit of ad assessment will also look at emerging threats to identify capabilities at those threats.	ure Tranches). A Trade Study/feasibility assessment will s to pursue in Future Tranches. This Trade Study/feasibilit lding capabilities to current set. The trade study/feasibilit	ility y					
FY 2024 Plans: VPS will identify preemptive, active, reactive, passive (or a combinate The trade study/feasibility assessment will look at capabilities that are destroy incoming threats, non-lethal/lethal unmanned aircraft system (IEDs)/mines, as well as prevent, mitigate and recover from Electron analyzed via a Trade Study/feasibility assessment and/or characteriz or combination of capabilities provide to address platform capability of tranches.	e able to detect, track, divert, disrupt, neutralize, and/or is (UAS), air to ground missiles, Improvised Explosive De ic Warfare (EW) and Cyber threats. These capabilities w zation/demonstration to understand the benefit the capab	evice vill be pility					
FY 2023 to FY 2024 Increase/Decrease Statement: Funding increase is due to conducting Trade Study/Feasibility asses ground combat vehicle survivability capability gaps that will fall into fu	,						
Title: SBIR/STTR Transfer			-	3.664	-		
Description: Funding transferred in accordance with Title 15 USC 6							
		I	I				

Appropriation/Budget Activity 2040 / 5				PE 06		ment (Number uite of Survivab EMD	Proje c FE8 /				
B. Accomplishments/Planned Prog	irams (\$ in N	<u>/lillions)</u>						ſ	FY 2022	FY 2023	FY 2024
FY 2023 Plans: Funding transferred in accordance w	ith Title 15 U	SC 638.									
FY 2023 to FY 2024 Increase/Decre Funding transferred in accordance w											
				Accon	nplishment	s/Planned Pro	grams Sub	totals	77.207	100.384	79.25
							FY 2022	FY 20)23		
Congressional Add: Bradley Family	of Vehicles	(BFV) Active	e Protection	System			16.000		-		
FY 2022 Accomplishments: Fundin Iron Fist-Light Decoupled (IFLD) effor MWO development and validation, E	rts to include	: final logisti	cs product d	evelopment,	verification	and validation,	,				
				Cong	ressional A	dds Subtotals	i 16.000		-		
C. Other Program Funding Summa	ry (\$ in Milli	ons)									
			<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>					<u>Cost To</u>	
Line Item	<u>FY 2022</u>	<u>FY 2023</u>	<u>Base</u>	000	<u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 202</u>	<u>FY 202</u>	<u>3</u> Complete	
• GM1911: VPS MODULAR ACTIVE PROTECTION SYSTEMS W/LASER	68.379	-	0.000	-	0.000	-	-			0.000	68.37
• GM1912: VPS SIGNATURE MANAGEMENT	6.907	-	0.000	-	0.000	-	-			0.000	6.90
• E97911: COMBAT VEHICLE RAT	17.755	-	0.000	-	0.000	-	-			0.000	17.75
Remarks On 21 SEPT 2016 - Directed Require approved VPS ICD as the requireme \$17.755 million APPN: 2034A; BA 1; NOV 2020 Army Requirements Over CDD for protection improvements to	nts to move Line Item N sight Counci	forward with umber: 9847 I (AROC) ap	production 7E97900; Titl pproved VPS	of reactive a le: Reactive Capability [rmor tiles fo Armor Tiles Developmen	r the Armored I s. t Document (C	Multi-Purpos DD) and on	se Vehio	cle (AMPV) in C 2020 AROC	Fiscal Year (M 20-27 app	(FY) 2022, roved the

Exhibit R-2A, RDT&E Project Jus	Date: March 2023											
Appropriation/Budget Activity				R-1 P	rogram Eler	nent (Numb	er/Name)	Project (N	lumber/Na	me)		
2040/5				PE 06	04852A / Su	ite of Surviva	ability Enhan	FE8 / Vehicle Protection Suite				
				cemer	nt Systems -	EMD						
C. Other Program Funding Summ	ary (\$ in Milli	ons <u>)</u>										
			FY 2024	<u>FY 2024</u>	FY 2024					Cost To		
Line Item	FY 2022	FY 2023	Base	000	<u>Total</u>	FY 2025	FY 2026	<u>FY 2027</u>	FY 2028	Complete	Total Cost	
July 2022 Annual VPS Governance	e Board was he	eld and appr	oved by the	co-chaired I	Maneuver Ca	pabilities De	evelopment ar	nd Integratio	on Directora	ate (MCDID)	and Next	
Generation Combat Vehicle (NGC)	/) Cross Funct											

D. Acquisition Strategy

VPS Trade Studies/Feasibility Assessments will assess the cost, maturity, complexity, performance, and physical properties of enhanced survivability technologies to determine the optimal application of VPS capabilities onto the Army's ground combat platforms. In FY 2018, the VPS program initiated the initial VPS Trade Study/ Feasibility Assessment to confirm survivability capabilities for focus in Tranche I and II, to include integration with Vehicle Protection System Base Kit (VBK). Focus of Tranche I was with Reactive Armor Tiles, laser threat detection with a common controller and signature management reduction. Support of Tranche efforts will be achieved through bailments, Cooperative Research and Development Agreements (CRADA), and Other Transactional Agreements (OTA) with industry and government partners. The VPS Tranche II solutions (soft and hard kill integration, threat detection, Camouflage, Concealment, Deception and Obscuration (CCDO) now know as Signature Management (SIGMAN), top attack protection, and other emerging protection technologies) based on the results of the Trade Study will have decision points and program initiations beginning in FY 2020. Along with the Tranche II activities starting in FY 2020, the VPS program will continue, maturation, qualification testing, platform integration, vehicle testing and fielding efforts (i.e. logistics and software development) with Tranche I programs. A Tranche III trade study/feasibility assessment will initiate in FY 2022 to define the next set of VPS technologies, based on evolving enemy threats, to focus on. These capabilities may include counter-unmanned aerial systems and the integration of artificial intelligence into vehicle survivability technologies. A Tranche IV trade study/feasibility assessment will initiate in FY 2024 to define the next set of Unmanned Aircraft System (UAS) and cooperative protection and integration of artificial intelligence into vehicle survivability technologies.

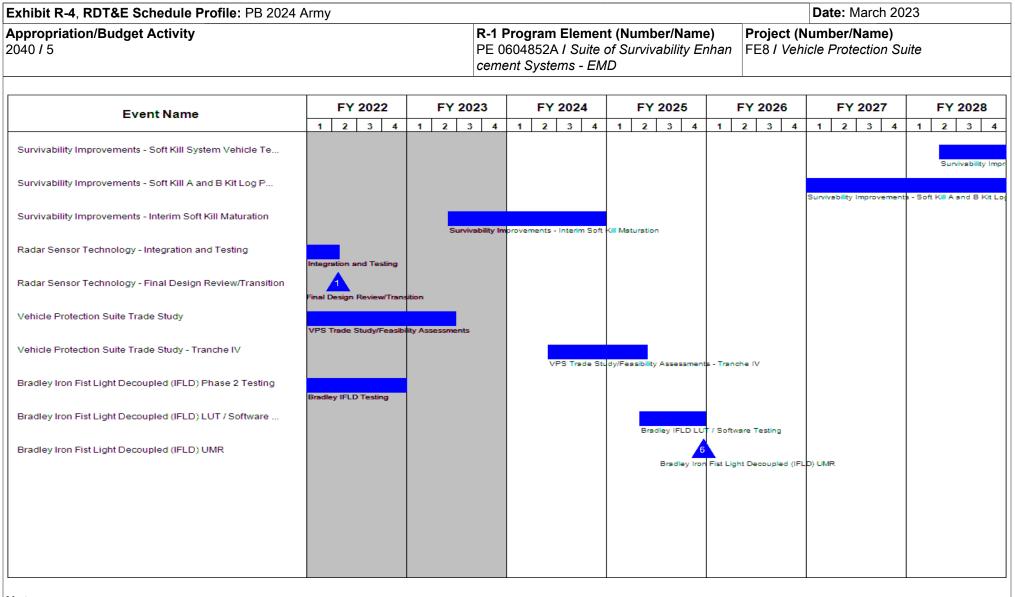
Exhibit R-3, RDT&E	•		2024 Army	/		1					_		March 20	23	
Appropriation/Budge 2040 / 5	et Activity					R-1 Program Element (Number/Name)Project (Number/Name)PE 0604852A / Suite of Survivability EnhanFE8 / Vehicle Protection Suitcement Systems - EMDFE8 / Vehicle Protection Suit								vite	
Management Service	es (\$ in M	illions)		FY 2	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Vehicle Protection Suite Program Management	MIPR	TACOM Warren, Michigan : Various	18.807	5.931	Dec 2021	9.584	Oct 2022	10.869	Dec 2023	-		10.869	24.549	69.740	-
SBIR/STTR Transfer	TBD	Various : Various	-	-		3.664		-		-		-	0.000	3.664	-
		Subtotal	18.807	5.931		13.248		10.869		-		10.869	24.549	73.404	N/A
Product Developmer	nt (\$ in Mi	illions)		FY 2022		FY 2023			2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	t Category Item & Type Activity & Location Year		Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Vehicle Protection System Base Kit	Various	Various: TBD : TBD	69.324	32.277	Jun 2022	55.136	Jun 2023	32.262	Jun 2024	-		32.262	32.010	221.009	-
Survivability Improvements	Various	Various TACOM Warren : Warren, MI	13.028	25.252	Jan 2022	28.391	Jan 2023	16.913	Jan 2024	-		16.913	230.687	314.271	-
Bradley Family of Vehicles (BFV) Active Protection System	Various	Various : BAE Sterling Heights, MI	16.000	16.000	May 2022	-		-		-		-	0.000	32.000	-
		Subtotal	98.352	73.529		83.527		49.175		-		49.175	262.697	567.280	N/A
Support (\$ in Million	s)		ſ	FY	2022	FY 2	2023	FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Vehicle Protection Suite	MIPR	Various : TACOM Warren Michigan	3.103	2.950	Mar 2022	-		3.063	Mar 2024	-		3.063	0.000	9.116	-
Trade Study			3.103	2.950	1			3.063	1			3.063	0.000	9.116	N/A

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	024 Army	/							Date: March 2023					
Appropriation/Budge 2040 / 5		R-1 Program Element (Number/Name) PE 0604852A / Suite of Survivability Enhan cement Systems - EMD						Project (Number/Name) FE8 / Vehicle Protection Suite								
Test and Evaluation ((\$ in Milli	ons)		FY	2022	FY 2023		FY 2024 Base			2024 CO	FY 2024 Total]			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Survivability Improvements	MIPR	Various Army Test and Evaluation Command (ATEC) : Various	7.346	1.823	Jun 2022	3.609	Jun 2023	1.930	Jun 2023	-		1.930	1.823	16.531	-	
Vehicle Protection System Base Kit	MIPR	Various Army Test and Evaluation Command (ATEC) : Various	6.874	8.974	Oct 2022	-		14.213	Jun 2023	-		14.213	76.663	106.724	-	
		Subtotal	14.220	10.797		3.609		16.143		-		16.143	78.486	123.255	N/A	
<u>Remarks</u> N/A			Prior					FY 2	2024	FY	2024	- FY 2024	Cost To	Total	Target Value of	
			Years		2022	FY 2	2023	Ba	ise		co	Total	Complete	Cost	Contract	
		Project Cost Totals	134.482	93.207		100.384		79.250		-		79.250	365.732	773.055	N/A	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 A	Army											Date: March 2023								
Appropriation/Budget Activity 2040 / 5												lame) ection S	uite							
	FY 2022	FY 202	23	FY 2024	FY	2025		FY 202	26		FY	2027		FY 2	028	٦				
Event Name	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	ţ.				
VBK - MAC and LWR (MAC) with (LWR) - Maturation and MAF	MAC and LWR Maturation	and MAF Compli	ance																	
VBK - Software Development	MAC and LWR Software I	Development																		
VBK - Component Qualification Testing	MAC and LWR Compone	nt Qualification Te	sting																	
VBK - Integration Design (Abrams, Bradley, AMPV, Stryker	MAC and LWR Platfrom I	ntegration Design																		
VBK - Logisitic Product Development	MAC and LWR Logisitic P	roduct Developme	ent																	
VBK - ATEC Testing (Bradley, Abrams, AMPV, Stryker, MPF)			MAC and	LWR Platform Testing																
VBK - Base Kit Improvements Maturation																				
VBK - Procurement Contract Award	MAC and LWR – B		3	R Procurement Contract /	ward															
Survivability Improvements Development																				
Survivability Improvements - Armor Upgrade Qualificatio	Survivability Improvement Armor Upgrade Qualificati																			
Survivability Improvements - Armor Upgrade Logistics Pr	Armor Upgrade Logistics I																			
Survivability Improvements – Armor TDP Development	ARAT III		en																	
Survivability Improvements - SIGMAN (previously known as	CCDO Testing																			
					1	I				1			1							

Exhibit R-4, RDT&E Schedule Profile: PB 2024 /	Arm	у																				Da	te: I	Marc	h 20)23				
Appropriation/Budget Activity 2040 / 5								PE 0	Prog 6048 ent S	352A	A I Si	uite	of S									Num nicle				uite				
Γ	<u>т</u>				_								1									-				T				٦
Event Name	1		Y 20)22 3 4	1		7 202	23	1	FY 2	202		1		Y 20		4	1	FY	202	26 4	1	FY 2	202 3		1		(20	28	_
Survivability Improvements - SIGMAN (previously known as			<u> </u>	5 4			2 Produc				5	4			<u> </u>	<u>, </u>	4	<u> </u>	2]]	4		2	3	4				4	-
Survivability Improvements - SIGMAN (previously known as	CCI	O Lo	a Prod	luct Deve	elbpme	ent and	d Provis	ioning																						
Survivability Improvements - Top Attack Protection Armor				ection A																										
Survivability Improvements - Top Attack Protection Armor	Тор	Attac	k Prote	ection Ar	mor Pl	atform	Testing	,																						
Survivability Improvements - Top Attack Protection Armor		Тор	Attac	k Protec	ction A	rmor in	ntegratio	on																						
Survivability Improvements - Top Attack Protection Armor							on Arma		roduct	t Deve	loomer	ntand	Provi	sionin	a															
Survivability Improvements - Top Attack Protection Armor								-	op Atts	4					-	adv														
Survivability Improvements - Tranche Technology Maturati	Trer	che II	Tech	nology N	(dturoti	ion & I	Develor									,														
Survivability Improvements – Government Energetic Quali		Ener					ocretop																							
Survivability Improvements - Soft Kill System Developmen			gene									Suni	vebilit	v Imor	5	ents -	Soft	Kii Si	rstern	Deve	loomer		Contra	act Aw	and					
Survivability Improvements - Soft Kill B-Kit Maturation																						Develo								
Survivability Improvements - Soft Kill Platform Integrat														0.0		.,,									5.0		otform	latac	ration Co	
Survivability Improvements - Soft Kill Platform Integration																					- Current								(III Platfo	
	_																1													-
																														1



Note

n/a

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army	Date: March 2023		
2040 / 5	R-1 Program Element (Number/Name) PE 0604852A / Suite of Survivability Enhan cement Systems - EMD		umber/Name) cle Protection Suite

Schedule Details

	Sta	art	End			
Events	Quarter	Year	Quarter	Year		
VBK - MAC and LWR (MAC) with (LWR) - Maturation and MAF Compliance	4	2019	3	2023		
VBK - Software Development	4	2019	4	2023		
VBK - Component Qualification Testing	1	2020	4	2023		
VBK - Integration Design (Abrams, Bradley, AMPV, Stryker and MPF)	1	2021	1	2027		
VBK - Logisitic Product Development	4	2021	1	2027		
VBK - ATEC Testing (Bradley, Abrams, AMPV, Stryker, MPF)	3	2023	4	2027		
VBK - Base Kit Improvements Maturation	2	2022	4	2027		
VBK - Procurement Contract Award	4	2023	4	2023		
Survivability Improvements Development	1	2020	4	2025		
Survivability Improvements - Armor Upgrade Qualification Testing	1	2020	4	2025		
Survivability Improvements - Armor Upgrade Logistics Product Development	4	2021	1	2026		
Survivability Improvements - Armor TDP Development	3	2022	2	2025		
Survivability Improvements - SIGMAN (previously known as CCDO) Testing AMPV, MPF, OMFV	2	2021	4	2026		
Survivability Improvements - SIGMAN (previously known as CCDO) Production Contract Award	2	2023	2	2023		
Survivability Improvements - SIGMAN (previously known as CCDO) Log Product Development and Provisioning	4	2021	4	2023		
Survivability Improvements - Top Attack Protection Armor Environmental Testing	1	2021	3	2023		
Survivability Improvements - Top Attack Protection Armor Platform Testing	3	2021	4	2023		
Survivability Improvements - Top Attack Protection Armor Integration	2	2022	2	2023		
Survivability Improvements - Top Attack Protection Armor Log Product Development and Provisioning	3	2022	4	2024		

nibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: Marc	ch 2023	
0/5 P	-1 Program Element (Numb E 0604852A / Suite of Surviv ement Systems - EMD	Project (Number/Name) FE8 / Vehicle Protection Suite			
	S	Start	E	nd	
Events	Quarter	Year	Quarter	Year	
Survivability Improvements - Top Attack Protection Armor Production Ready	2	2024	2	2024	
Survivability Improvements - Tranche Technology Maturation & Development	t 3	2020	4	2027	
Survivability Improvements - Government Energetic Qualification Testing	1	2021	4	2022	
Survivability Improvements - Soft Kill System Development EMD Contract Av	vard 2	2025	2	2025	
Survivability Improvements - Soft Kill B-Kit Maturation and Validation	2	2025	1	2027	
Survivability Improvements - Soft Kill Platform Integration Contract Award	2	2027	2	2027	
Survivability Improvements - Soft Kill Platform Integration	2	2027	4	2028	
Survivability Improvements - Soft Kill System Vehicle Testing	2	2028	2	2029	
Survivability Improvements - Soft Kill A and B Kit Log Product development	1	2027	1	2030	
Survivability Improvements - Interim Soft Kill Maturation	2	2023	4	2024	
Radar Sensor Technology - Integration and Testing	2	2021	1	2022	
Radar Sensor Technology - Final Design Review/Transition	2	2022	2	2022	
Vehicle Protection Suite Trade Study	1	2022	2	2023	
Vehicle Protection Suite Trade Study - Tranche IV	2	2024	2	2025	
Bradley Iron Fist Light Decoupled (IFLD) Phase 2 Testing	4	2021	4	2022	
Bradley Iron Fist Light Decoupled (IFLD) LUT / Software Testing	2	2025	4	2025	
Bradley Iron Fist Light Decoupled (IFLD) UMR	4	2025	4	2025	

<u>Note</u>

n/a

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army												Date: March 2023				
							t (Number / y Systems -									
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	-	25.000	48.106	42.490	-	42.490	70.518	132.172	133.582	135.073	Continuing	Continuing				
516: Paladin/FAASV	-	-	23.106	42.490	-	42.490	70.518	132.172	133.582	135.073	Continuing	Continuing				
HB6: Mobile 155MM Howitzer	-	25.000	25.000	-	-	-	-	-	-	-	0.000	50.000				

Note

Elimination: Project HB6 has no funding request for FY 2024.

A. Mission Description and Budget Item Justification

This program element encompasses engineering and manufacturing development for artillery weapons systems.

Project HB6 supports the mobile howitzer program. The Mobile 155mm Howitzer is a Self-Propelled, 155mm Wheeled Howitzer that provides lethal, proactive counterfire essential for the survivability of the maneuver formations and other close support fires as required. The Mobile Howitzer improves the Field Artillery Battalion's ability to maintain pace with its supporting maneuver formations and survive against responsive, counter-fire from near-peer threats with rapid displacement and emplacement times. The mobile howitzer will improve tactical mobility and system survivability compared to existing towed howitzer systems. Development efforts, prototyping and evaluations will focus on attributes such as improved emplacement and displacement times, driving speed, and crew protection capabilities, all without sacrificing lethality versus existing towed howitzer systems. Program activities in FY 2021 will be focused on evaluation of multiple vendor mobile howitzer systems at United States proving grounds against system requirements. Evaluation will include safety testing, US ammunition compatibility testing, and assessment of mobility, survivability and transportability.

Project Paladin/FAASV to modernize the M109 Family of Vehicles (FoV) to improve performance and address expected changes in the operational profile. The M109 FoV is an indirect fire weapon system with the ability of delivering accurate, long range, lethal and non-lethal cannon fires in support of both Combined Arms Maneuver (CAM) and Wide Area Security (WAS) operations. The M109 FoV can be employed within any Brigade Combat Team formation to neutralize, suppress, or destroy enemy forces, while providing protected transport of a field artillery howitzer section on the modern battlefield. Funding also supports work being completed at the Watervliet Arsenal (WVA) in Watervliet, NY.

This effort will include system usage and optimization studies, simulations, development engineering, prototype development and validation for incremental upgrades on the M109 FoVs.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Ar Appropriation/Budget Activity		R-1 Program	Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army I BA	5: System		A Artillery Systems - EMD			
Development & Demonstration (SDD)	2					
B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024	Total
Previous President's Budget	25.000	23.106	43.388	-	4	43.388
Current President's Budget	25.000	48.106	42.490	-	4	42.490
Total Adjustments	0.000	25.000	-0.898	-		-0.898
Congressional General Reductions	-	-				
 Congressional Directed Reductions 	-	-				
 Congressional Rescissions 	-	-				
Congressional Adds	-	25.000				
 Congressional Directed Transfers 	-	-				
Reprogrammings	-	-				
SBIR/STTR Transfer	-	-				
 Adjustments to Budget Years 	-	-	-0.898	-		-0.898
Congressional Add Details (\$ in Millions, and Inclue	des General Red	ductions)			FY 2022	FY 2023
Project: HB6: Mobile 155MM Howitzer						
Congressional Add: Soft Recoil Development					25.000	25.00
			Congressional Add Subtot	als for Project: HB6	25.000	25.00

Change Summary Explanation

Decreased funding to support higher Army priorities.

Congressional Add Totals for all Projects

25.000

25.000

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	Army							Date: Mar	ch 2023	
Appropriation/Budget Activity 2040 / 5						am Elemen 54A <i>I Artillei</i>				umber/Nai din/FAASV	me)	
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
516: Paladin/FAASV	-	-	23.106	42.490	-	42.490	70.518	132.172	133.582	135.073	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Bud Project Paladin/FAASV to modern FoV is an indirect fire weapon sys (CAM) and Wide Area Security (V enemy forces, while providing pro Watervliet Arsenal (WVA) in Water This effort will include system usa the M109 FoVs.	nize the M1 stem with th NAS) opera otected tran ervliet, NY.	09 Family c ne ability of ations. The I asport of a fi	of Vehicles (delivering a M109 FoV c eld artillery l	ccurate, lor an be empl howitzer se	ng range, le loyed within ection on the	thal and nor any Brigad e modern ba	n-lethal canı e Combat T attlefield. Fu	non fires in eam forma nding also	support of I tion to neut supports wo	ooth Combi ralize, supp ork being co	ned Arms M press, or des ompleted at	laneuver stroy the
B. Accomplishments/Planned P	rograms (\$ in Million	<u>s)</u>						FY	2022 I	FY 2023	FY 2024
Title: Program Management										-	3.690	3.733
Description: Funding is provided	for all Prog	gram Manag	gement supp	oort efforts.								
<i>FY 2023 Plans:</i> Lead the planning and coordination strategy for increasing performance <i>FY 2024 Plans:</i> Develop and manage detailed sch production, and coordination for a	ce of the M nedules for	109 Family modernizat	of Vehicles	(FoV). s, execute p		-			the			
FY 2023 to FY 2024 Increase/De	ecrease Sta		lic documen	ns.								
Title: Developmental Engineering										-	18.573	38.757
Description: Conduct developmed develop a proposed system configured system configured by the												
<i>FY 2023 Plans:</i> Develop system configurations ar	nd conduct	simulations	to optimize	system reli	ability/perfo	ormance.						
FY 2024 Plans:												

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date:	March 2023			
Appropriation/Budget Activity 2040 / 5	Project (Number/Name) 516 / Paladin/FAASV					
B. Accomplishments/Planned Programs (\$ in Millions) Continue engineering development activities to include studies and	design reviews. Place orders for prototype material.	FY 2022	FY 2023	FY 2024		
FY 2023 to FY 2024 Increase/Decrease Statement: Increased funding in FY 2024 is due to ramp up on development eff from trade study.	forts and prototype materials as a result of the Army dec	ision				
Title: SBIR/STTR Transfer		-	0.843	-		
FY 2023 Plans: SBIR/STTR Transfer. Funding transferred in accordance with Title	15 USC 638.					
FY 2023 to FY 2024 Increase/Decrease Statement: SBIR/STTR Transfer. Funding transferred in accordance with Title	15 USC 638.					
	Accomplishments/Planned Programs Su	btotals -	23.106	42.49		

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

N/A

<u>Remarks</u>

D. Acquisition Strategy

The M109 FoV modernization will leverage Government and Government support contractors, as well as contract mechanisms to prototype, test, and evaluate technologies for the development and validation of modernization efforts.

Appropriation/Budge 2040 / 5	et Activity	1				R-1 Program Element (Number/Name)Project (Number/Name)PE 0604854A / Artillery Systems - EMD516 / Paladin/FAASV									
Management Service	es (\$ in M	illions)		FY	2022	FY 2	2023		2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SEPM Government	MIPR	Various : Various	-	-		1.826	Dec 2022	1.848	Dec 2023	-		1.848	0.000	3.674	-
SEPM Contractor	TBD	Various : Various	-	-		1.864	Mar 2023	1.885	Mar 2024	-		1.885	0.000	3.749	-
SBIR/STTR	TBD	TBD : TBD	-	-		0.843	Dec 2022	-		-		-	0.000	0.843	-
	<u></u>	Subtotal	-	-		4.533		3.733		-		3.733	0.000	8.266	N/A
Product Developmer	nt (\$ in Mi	illions)		FY	2022	FY 2	2023		2024 Ise	FY 2 OC	2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Engineering	TBD	TBD : TBD	-	-		17.016	Mar 2023	18.295	Mar 2024	-		18.295	0.000	35.311	-
Production, Engineering, Planning	TBD	TBD : TBD	-	-		0.499	Mar 2023	0.501	Mar 2024	-		0.501	0.000	1.000	-
Development Tooling	TBD	TBD : TBD	-	-		0.006	Mar 2023	0.006	Mar 2024	-		0.006	0.000	0.012	-
Prototype Manufacturing	TBD	TBD : TBD	-	-		-		17.332	Mar 2024	-		17.332	0.000	17.332	-
		Subtotal	-	-		17.521		36.134		-		36.134	0.000	53.655	N/A
Support (\$ in Million	s)			FY	2022	FY 2	2023		2024 Ise	FY 2 O(FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Data	TBD	TBD : TBD	-	-		0.918	Mar 2023	1.058	Mar 2024	-		1.058	0.000	1.976	-
Support Equipment	TBD	TBD : TBD	-	-		0.134	Mar 2023	0.134	Mar 2024	-		0.134	0.000	0.268	-
Other	TBD	TBD : TBD	-	-		-		1.431	Mar 2024	-		1.431	0.000	1.431	-
		Subtotal	-	-		1.052		2.623		-		2.623	0.000	3.675	N/A
			Prior Years	FY	2022	FY	2023		2024 Ise	FY 2 O(FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	-	-		23.106		42.490		-		42.490	0.000	65.596	N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2	2024 Army						Date: March 20	23
Appropriation/Budget Activity 2040 / 5			R-1 Pro PE 0604	o gram Elemen 4854A / Artiller	t (Number/Name) y Systems - EMD		Number/Name) adin/FAASV	
Event Name	FY 2022	FY 20		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Developmental Engineering	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
Prototype Manufacturing								
Prototype/System Level Test and Validation								

nibit R-4A, RDT&E Schedule Details: PB 2024 Army					Date: Marc	h 2023
oropriation/Budget Activity 0 / 5	R-1 Program E PE 0604854A /	(Number/Nam aladin/FAASV	ne)			
	Schedule Details	5				
	Г	Sta	art		Er	nd
Events		Sta Quarter	art Year		Er Quarter	nd Year
Events Developmental Engineering						-
		Quarter	Year			Year

Exhibit R-2A, RDT&E Project Ju	ustification				Date: Mar	ch 2023						
Appropriation/Budget Activity 2040 / 5							(Number/Name) bbile 155MM Howitzer					
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
HB6: Mobile 155MM Howitzer	-	25.000	25.000	-	-	-	-	-	-	-	0.000	50.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

<u>Note</u>

Project HB6 has no funding request for Fiscal Year (FY) 2024.

A. Mission Description and Budget Item Justification

Project HB6 supports the mobile howitzer program. The Mobile 155 millimeter (mm) Howitzer is a Self-Propelled, 155mm Wheeled Howitzer that provides lethal, proactive counter-fire essential for the survivability of the maneuver formations and other close support fires as required. The Mobile Howitzer improves the Field Artillery Battalion's ability to maintain pace with its supporting maneuver formations and survive against responsive, counter-fire from near-peer threats with rapid displacement and emplacement times. The mobile howitzer will improve tactical mobility and system survivability compared to existing towed howitzer systems. Development efforts, prototyping and evaluations will focus on attributes such as improved emplacement and displacement times, driving speed, and crew protection capabilities, all without sacrificing lethality versus existing and future towed howitzer systems.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023
Congressional Add: Soft Recoil Development	25.000	25.000
FY 2022 Accomplishments: Funds support the development and testing of soft recoil systems for possible utilization in current and future artillery systems.		
FY 2023 Plans: Funds support the continued development and testing of soft recoil systems for possible utilization in current and future artillery systems.		
Congressional Adds Subtotals	25.000	25.000

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

N/A

<u>Remarks</u>

D. Acquisition Strategy

The acquisition strategy for the Mobile Howitzer Program is to evaluate existing industry prototypes and fielded systems and assess capability of mobility and survivability attributes. Evaluation will be conducted by US Army engineers and the Army Test and Evaluation Command.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2024 Army	/								Date:	March 20	23	
Appropriation/Budget Activity 2040 / 5							R-1 Program Element (Number/Name) PE 0604854A / Artillery Systems - EMD					Project (Number/Name) HB6 / Mobile 155MM Howitzer			
Product Developme	nt (\$ in M	illions)		FY 2	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Soft Recoil Development	TBD	PM Towed Artillery Systems : Picatinny Arsenal, NJ	25.000	25.000	Mar 2022	25.000	Aug 2023	-		-		-	0.000	75.000	-
	_	Subtotal	25.000	25.000		25.000		-		-		-	0.000	75.000	N/A
			Prior Years	FY	2022	FY	2023		2024 ase		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	25.000	25.000		25.000		-		-		-	0.000	75.000	N/A

Remarks

3 2024 Army	R-1 Program Element (Number/Name) Project (Number/Name)											
	PE 0004034A I ATIMETY SYSTEMS - EMD HB0 I MODILE ISSMM HOWITZER											
FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028						
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						
		FY 2022 FY 2023	R-1 Program Elemen PE 0604854A I Artiller FY 2022 FY 2023 FY 2024	R-1 Program Element (Number/Name) PE 0604854A / Artillery Systems - EMDFY 2022FY 2023FY 2024FY 2025	R-1 Program Element (Number/Name) Project (Nu PE 0604854A / Artillery Systems - EMD HB6 / Mobile FY 2022 FY 2023 FY 2024 FY 2025 FY 2026	PE 0604854A I Artillery Systems - EMD HB6 I Mobile 155MM Howitz FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027						

whibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Mar	ch 2023
propriation/Budget Activity 40 / 5	R-1 Program Eler PE 0604854A / Ar	Project (Number/Name) HB6 / Mobile 155MM Howitzer			
	Schedule Details				
		Sta	rt	E	nd
Events		Quarter	Year	Quarter	Year
Mobile Howitzer Analysis		1	2020	3	2020
Testing and Engineering Support		3	2020	4	2021
I esting and Engineering Support Bid Sample Test		3 3	2020 2021	4	2021 2021
		.			

Exhibit R-2, RDT&E Budget Item	Justificat	tion: PB 202	24 Army							Date: Marc	ch 2023			
Appropriation/Budget Activity 2040: Research, Development, Te Development & Demonstration (SI		ation, Army	I BA 5: Sys	tem	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development									
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	-	125.109	104.134	104.024	-	104.024	54.883	48.365	53.936	48.996	Continuing	Continuing		
099: Army Human Resource System	-	0.190	15.132	5.680	-	5.680	5.487	5.593	5.599	5.566	0.000	43.247		
184: Installation Support Modules	-	13.716	1.324	-	-	-	-	-	-	-	0.000	15.040		
193: <i>Medical Communications</i> For Combat Casualty*	-	-	-	-	-	-	4.479	2.759	5.413	2.295	0.000	14.946		
BY3: Information Systems for Installations	-	-	1.022	1.024	-	1.024	2.615	2.024	2.216	2.823	0.000	11.724		
DH1: Operational Medicine Information System	-	-	-	4.241	-	4.241	-	-	-	-	0.000	4.241		
FL9: Army Accessioning IT Development	-	5.183	6.479	2.288	-	2.288	2.337	2.385	2.436	2.487	0.000	23.595		
FM7: Human Resouces Information Technology	-	12.497	11.574	11.449	-	11.449	6.941	7.060	9.591	7.301	Continuing	Continuing		
FM8: Information Technology for Training Systems	-	60.670	36.893	5.993	-	5.993	1.562	3.275	3.306	3.451	0.000	115.150		
FM9: Information Technology for Criminal Investigations	-	1.181	1.273	2.697	-	2.697	1.298	1.313	1.328	1.342	0.000	10.432		
T04: USMEPCOM TRANSFORMTION - IT MODERNIZATION	-	8.753	2.221	2.239	-	2.239	2.240	2.242	2.617	2.646	0.000	22.958		
T05: Army Business System Modernization Initiatives	-	19.855	24.875	65.143	-	65.143	24.574	18.328	18.007	17.591	0.000	188.373		
VR3: ASMIS-R (REPORTIT)	-	3.064	3.341	3.270	-	3.270	3.350	3.386	3.423	3.494	0.000	23.328		

*This project's R-2a exhibit has been suppressed due to funding not beginning until after FY 2024

A. Mission Description and Budget Item Justification

This Program Element is made up of over 30 programs across 12 Program Elements that represents numerous Army Information Technology missions.

khibit R-2, RDT&E Budget Item Justification: PB 2024 A	rmy			Date	: March 2023	
opropriation/Budget Activity 40: Research, Development, Test & Evaluation, Army I BA evelopment & Demonstration (SDD)	5: System		Element (Number/Name) I Information Technology I			
Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024	Total
Previous President's Budget	129.380	124.475	57.737	-	5	57.737
Current President's Budget	125.109	104.134	104.024	-	10	4.024
Total Adjustments	-4.271	-20.341	46.287	-	2	6.287
 Congressional General Reductions 	-	-				
 Congressional Directed Reductions 	-	-20.215				
 Congressional Rescissions 	-	-				
 Congressional Adds 	-	-				
 Congressional Directed Transfers 	-	-				
 Reprogrammings 	-4.271	-				
 SBIR/STTR Transfer 	-	-				
 Adjustments to Budget Years 	-	-	46.287	-	2	6.287
FFRDC Transfer	-	-0.126	-	-		-
Congressional Add Details (\$ in Millions, and Inclu	udes General Red	ductions)		ſ	FY 2022	FY 2023
Project: 184: Installation Support Modules				-	U	
Congressional Add: Program increase - installatio	n access control t	echnology		-	4.500	
Congressional Add: Program Increase - Smart ins	tallation and com	munity program		-	8.000	
			Congressional Add Subto	otals for Project: 184	12.500	
			Congressional Add T	otals for all Projects	12.500	

Change Summary Explanation

Increase in FY 2024 funding request from Previous President's Budget to Current President's Budget reflects the implementation of Enterprise Business Systems - Convergence (EBS-C).

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	vrmy							Date: Mare	ch 2023	
Appropriation/Budget Activity 2040 / 5					-		t (Number/ ation Techn	lumber/Name) y Human Resource System				
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
099: Army Human Resource System	-	0.190	15.132	5.680	-	5.680	5.487	5.593	5.599	5.566	0.000	43.247
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Army Human Resource System Project (099) contains the following programs: ArmylgnitED Modernization managed by the Human Resource Command, Commanders Risk Reduction Dashboard managed by Program Executive Office Enterprise Information Systems (PEO EIS) and Regional Level Applications Software (RLAS) managed by United States Army Reserves (USAR).

ArmylgnitED: In support of recruiting and retention for a more educated workforce, ArmylgnitED is an Army Credentialing and Continuing Education Services for Soldiers (ACCESS) program, 24/7 virtual financial management portal, and decision-support tool for 1) Active Duty, US Army Reserves and Army National Guard Soldiers to request Tuition Assistance (TA); 2) Cadets to request Scholarship payments and 3) Department of the Army (DA) Civilians and Apprentices to request professional development funds. ArmylgnitED is an enterprise system that enforces eligibility for higher education funds and creates efficiencies with its automated processes. Soldiers, Scholarship Cadets, DA Civilians and Apprentices use it to pursue post-secondary educational goals and professional development objectives; Army Education Counselors use it to provide educational guidance; Career Program Managers and Training Managers use it to manage civilian training; and Academic Institutions use it to deliver degree and course offerings and to report user progress and degree completions for 206K Soldiers, Cadets and Civilians. ArmylgnitED includes an automated registration tool that enforces policies and procedures, serves as a financial feeder for automated financial transactions, tracks academic / training progress within the system, and provides visibility of financial management and regulatory compliance of enrollment processes. ArmylgnitED is hosted in the Air Force's Amazon Web Services (AWS) GovCloud until migration to an Army Cloud environment is decided, funded, and implemented.

The United States Army Reserve (USAR) utilizes the Regional Level Application Software (RLAS) as an enterprise system for duty attendance, military pay, Soldier records management and training calendar management to access, transact, store, and manage Soldier and unit data required to conduct synchronized USAR operations. Unlike the Army Active Component (AC) where Soldier military pay is centrally managed and input at the installation level, the USAR utilizes RLAS to manage and input decentralized Soldier pay transactions at the unit level. RLAS consists of four modules: Pay, Personnel, Training, and Resource Management. Research and Development (R&D) authority and funding will provide RLAS with investment funds for necessary system development and system modifications. R&D funding amounts increase slightly towards the end of RLAS lifecycle (FY 2019 and 2020) in order to fully support the Integrated Pay and Personnel System - Army (IPPS-A) transition. Annually, USAR will provide sustainment funding. R&D authority and sustainment funding will meet the USAR Staff Judge Advocate (SJA) and Office of the Secretary of Defense Judge Advocate General (OTJAG) opinions regarding defense information Technology (IT) system for R&D activities. Necessary RLAS system development and system modifications include: 1) IPPS-A interface requirements; 2) implementing Microsoft .net Framework 4.5 standards; 3) implementing new Operating Systems (OS), system utilities and other technology products. Enhanced development and modification to RLAS will improve RLAS system capabilities and bring RLAS into compliance with various Army Cyber Command (ARCYBER) and audit readiness requirements. RLAS will continue to process duty attendance, military pay, Soldier personnel transactions and training calendars until the system is fully subsumed by IPPS-A.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	•	Number/N ny Human	lame) Resource Sys	stem
Commanders Risk Reduction Dashboard (CRRD) has been transitioned to the	Army Vantage (T05).				
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2022	FY 2023	FY 2024
Title: ArmylgnitED			-	13.956	5.123
Description: ArmylgnitED is an IT financial management portal and decision set to request Tuition Assistance (TA) and Credentialing Assistance (CA), Cadets to Civilians to request training funds online, anytime, for classroom, distance learn ArmylgnitED will be used by approximately 500,000 end users at both Continer CONUS (OCONUS) locations. It will be the Army's single, next-generation, entermanagement software system. The legacy system has been decommissioned. educated workforce, ArmylgnitED is the virtual financial management portal and Army Reserves (USAR), and Army National Guard (ARNG) Soldiers to request and 3) Department of the Army (DA) Civilians and Apprentices to request profeses an application on the Air Force (AF) Automated Education Management Systelliton. Development maximizes re-configuration of the Air Force Voluntary Education pand performing only minimal necessary modifications to ensure implementation (LPRDs). Continuous Integration / Continuous Delivery (CI/CD) principals are emplored and Soldier Personnel data. Government testing, to inclue Acceptance Testing (GAT) validated requirements were satisfactory. Migration legacy ArmylgnitED into the new ArmylgnitED system initiated in MVP 1. CI/CD continues with MVP 2 deployed capabilities to Soldier CA (MVP2A) in Of 2022, and Civilian TA/CA capabilities (MVP2C) is scheduled for JUN 2023. MV to inform and enable the new capability. MVP 3 provides new capabilities and development timeline. Following the CI/CD model, MVP 3 will deliver enhancent tested.	to request Scholarship payments, and Army ning, and college courses. When fully deployed that United States (CONUS) and Outside the erprise-wide TA, CA, and reimbursement In support of recruiting and retention for a more d decision-support tool for 1) Active Duty (AD). TA; 2) Cadets to request Scholarship payment ssional development funds. ArmylgnitED is ho stem (AFAEMS) Government Off the Shelf (GC platform, AFAEMS, to the greatest extent poss of Army laws, policies, regulations, and direct employed to deliver capabilities in a series of m. MVP 1, which deployed AUG 2022, provide ide Functional Assessments (FA) and Governm of historical data from both GoArmyEd and the CT 2022, Cadet scholarships (MVP2B) in DEC /P 2 includes establishing eight (8) interfaces enhancements not possible in the rapid "MVP"	e US ts sted)TS) ible ives s nent			
FY 2023 Plans: Continuous Improvement and Continuous Delivery (CI/CD) of ArmylgnitED func (MVP2A) which was deployed in OCT 2022. MVP2A consisted of the Developm and the approved Limited Deployment (LD) of the ArmylgnitED CA functionality deployed DEC 2022. MVP2B consisted of the Development, Gov Testing of the the approved LD of the ArmylgnitED Cadet scholarship functionality. Civilian Tr	nent, and Gov Testing of the CA functionality /. Cadet scholarships assistance (MVP2B) was 2 Cadet scholarship assistance functionality, and	s nd			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	Project (Number/I 099 / Army Human		rstem
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
scheduled to deploy JUN 2023. MVP2C will consist of the Development, Gov T Civilian Training assistance and TA/CA capabilities.	esting and the approved LD of the ArmylgnitE	D		
FY 2024 Plans: Following the planned MVPs, ArmylgnitED will enter a Capability Support phase will be added, and enhancements will occur as more interfaces, business proce methodology and CI/CD implementation approach will continue for both mainter frequently updated in rapid fashion and responsive to emerging needs, to include evolve due to ever-changing Laws, Policies, Regulations, and Directives, busine capabilities identified given emerging mission needs and technology advancem Army Enterprise modernization. Capability enhancements are defined as function to be developed and tested in the future. Capability enhancements are defined will have to be developed and tested in the future. Such capabilities include but Career Tracker (ACT); Defense Civilian Personnel Data System (DCPDS), Join Environment (AIE) and the Defense Activity Non-Traditional Education Support ArmylgnitED. The Capability Enhancements will benefit specific functional users which will support TA and CA and also enhancements which will benefit all func- Help Desk capabilities. Residual data migration may also be necessary.	esses, and features are automated. The Agile nance and enhancements. ArmylgnitED will b de adding / updating functionality as requireme ess process reengineering, efficiency reviews nents that offer business process efficiencies, a onalities that have been identified but will have as functionalities that have been identified but are not limited to the additional interfaces; Arm t Service Transcript (JST), Accessions Inform (DANTES) OSD Rates being integrated into s such as developing the FY Funding dashboa	e ents new and e my ation ard		
FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024 decrease in RDT&E funds due to completion of system development a	and transition to capability support.			
Title: Regional Level Application Software (RLAS)		0.190	0.624	0.557
Description: The United States Army Reserve (USAR) utilizes the Regional Lessystem for duty attendance, military pay, Soldier records management and train store and manage Soldier and unit data required to conduct synchronized USA (AC) where Soldier military pay is centrally managed and input at the installation input decentralized Soldier pay transactions at the unit level. RLAS consists of the Resource Management. R&D authority and funding will meet the USAR Staff J of Defense Judge Advocate General (OTJAG) opinions regarding defense infort Necessary RLAS system development and system modifications include: 1) Int (IPPS-A) interface requirements; 2) implementing Microsoft .net Framework 4.5 Systems (OS), system utilities and other technology products. Enhanced development	ning calendar management to access, transac R operations. Unlike the Army Active Component n level, the USAR utilizes RLAS to manage ar four modules: Pay, Personnel, Training, and ludge Advocate (SJA) and Office of the Secret rmation Technology (IT) system for R&D activities egrated Pay and Personnel System - Army 5 standards; 3) implementing new Operating opment and modification will improve RLAS sy	t, ent nd ary ties.		

Exhibit R-2A, RDT&E Project Jus	tification: PB	2024 Army		1				_	Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5					05013A / Int	nent (Numb formation Tee	er/Name) chnology Dev		ct (Number/N Army Human		/stem
B. Accomplishments/Planned Pro	ograms (\$ in N	<u>(lillions)</u>							FY 2022	FY 2023	FY 2024
FY 2023 Plans: Funding provides for continued devisecurity controls. Funding also prov							s and system	user			
FY 2024 Plans: - Enhancement of Cloud sustainme - Implementation and interface solu - Maintain RLAS Legacy Application - Further develop audit standards for	itions for IPPS-		s and segre	gation of dut	ies						
FY 2023 to FY 2024 Increase/Dec Minimal funding decrease	rease Statem	ent:									
Title: SBIR/STTR									-	0.552	-
Description: Funding transferred in	n accordance v	vith Title 15	USC §638								
FY 2023 Plans: Funding transferred in accordance	with Title 15 U	SC §638									
FY 2023 to FY 2024 Increase/Dec Funding transferred in accordance											
				Accor	nplishment	s/Planned P	rograms Sub	ototals	0.190	15.132	5.68
C. Other Program Funding Summ	nary (\$ in Milli	ons)	EV 2024	EV 2024	EV 2024					Coot T	
Line Item • OMA - ArmylgnitED: <i>ArmylgnitED Management</i> Remarks	<u>FY 2022</u> -	<u>FY 2023</u> 16.983	<u>FY 2024</u> <u>Base</u> 16.161	<u>FY 2024</u> <u>OCO</u> -	<u>FY 2024</u> <u>Total</u> 16.161	<u>FY 2025</u> 16.263	<u>FY 2026</u> 16.506	FY 202 16.84		Cost To <u>Complete</u> 1 Continuing	Total Cos
D. Acquisition Strategy ArmylgnitED is the Army's instantia (AFAEMS), that will be updated to functionality for use by Army Soldie	ensure (1) con	npliance with	h Army LPRI	Ds, and (2) c	lata exchang	e with Army	system partn	ers, to p	orovide TA ar	id CA manag	ement

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	Project (Number/Name) 099 / Army Human Resource System
acquisition (engineering and design, logistics planning, testing, etc.) are intensive performance is tracked against the Work Breakdown Structure (WBS) and rest		
Some additional ArmylgnitED capabilities will be added and enhancements will Agile development methodology and CI/CD process will continue for both main to emerging needs, to include adding / updating functionality as requirements of Army Enterprise operations are integrated. Residual data migration may also be developed and delivered through a series of MVPs prioritized to overcome leg. Soldiers, Civilians, and Cadets. ArmylgnitED will extend the current Air Force year, hybrid Firm Fixed Price & Time and Materials software support and developed	ntenance and enhancements to ensure Armylg evolve due to ever-changing Laws, Policies, R be necessary. The overarching acquisition stra acy system deficiencies which caused significa Task Order and then transition to an Army Co	nitED is frequently updated in response egulations, and Directives, and more tegy is to deliver incremental capabilities; ant payment issues and loss of capability to
RLAS - Will utilize GSA contract support to solicit FY 2020/2021 two-year soft RLAS will utilize GSA contract support to solicit FY 2021/2022/2023 three-yea RLAS will utilize existing USAR G6 hardware / servers / virtual environment / A hardware and devices as needed to operate the RLAS system.	r software support & development contract - hy	/brid Firm Fixed Price & Time and materials.

Exhibit R-3, RDT&E I Appropriation/Budge 2040 / 5	R-1 Program Element (Number/Name) Project (Number/Name) PE 0605013A / Information Technology Dev 099 / Army Human Resource Systement														
Management Service	es (\$ in №	lillions)		FY 2	022	FY 2	023	FY 2 Ba			2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.552		-		-		-	0.000	0.552	-
		Subtotal	-	-		0.552		-		-		-	0.000	0.552	N/
Product Developmen	nt (\$ in M	illions)	ſ	FY 2	:022	FY 2	023	FY 2 Bas	-		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AHRS - ECPs/SCPs/ICPs/ RLAS	C/FFP	Hewlitt Packard : various	90.529	0.190		0.624		0.555		-		0.555	Continuing	Continuing	-
Army IgnitED	C/FFP	TBD : Various	17.800	-		13.956		5.125		-		5.125	Continuing	Continuing	-
		Subtotal	108.329	0.190		14.580		5.680		-		5.680	Continuing	Continuing	N/A
ArmylgnitED - The Program process re- engineering, an follow-on contract for the G	nd cybersec	curity support services. A	follow-on c	ontract for O	Capability S ement func	tions are bei	e award by	3QFY23. T with OMA. FY 2	he program	will leverag			Cost To Complete	Total Cost	Target Value of Contract
												IViui	Complete		
		Project Cost Totals	108.329	0.190	-	15.132	010	5.680		-		5.680	Continuing	Continuing	

Exhibit R-4, RDT&E Schedule Profile: PB 2024 /	٩rm	y																					Date	э: М	arch	n 20	23			
Appropriation/Budget Activity								F	א-1 F	rog	ram	Ele	men	nt (N	lum	ber	Nam	ie)	F	Proje	ect	(Nu	mb	er/N	lam	e)				
2040/5																	nolog										ce S	yste	m	
									lopn								•					•						-		
								I																						
EventName		F	Y 20	22		I	FY :	202	3		FY	202	24		F	Y 20	25		F١	Y 20	26			FY :	202	7		FY	20	28
Lionitianio	1	1	2 3		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	1	2	3	4	1	2	3	3 4
ArmylgnitED MVP 1 Development																														
ArmylgnitED MVP 1 Gov Testing																														
ArmylgnitED MVP 1 Limited Deployment (LD)/Implementation																														
ArmylgnitED MVP 2a Development																														
ArmylgnitED MVP 2a Gov Testing																														
ArmylgnitED MVP 2a Limited Deployment / Implementation																														
ArmylgnitED MVP 2b Development																														
ArmylgnitED MVP 2b Gov Testing																														
ArmylgnitED MVP 2b Limited Deployment / Implementation																														
ArmylgnitED MVP 2c Development																														
ArmylgnitED MVP 2c Gov Testing																														
ArmylgnitED MVP 2c Limited Deployment / Implementation																														
ArmylgnitED MVP 3 Development																														

xhibit R-4, RDT&E Schedule Profile: PB 2024 ppropriation/Budget Activity 040 / 5		F	R-1 Program Elemen PE 0605013A / Inform elopment	nt (Number/Name nation Technology	e) Project (N v Dev 099 I Arm	Date: March 202 lumber/Name) y Human Resourc	
Event Name	FY 2022	FY 202	3 FY 2024 4 1 2 3 4	FY 2025	FY 2026	FY 2027	FY 2028
ArmylgnitED MVP 3 Gov Testing							
ArmylgnitED MVP 3 Full Deployment (FD) / Implementation							
ArmylgnitED Capability Support							
Continuous Enhancements (RDT&E)							

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: March 2023
	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	•	umber/Name) / Human Resource System

Schedule Details

	Sta	art	End			
Events	Quarter	Year	Quarter	Year		
GoArmyEd Support/Enhancements	3	2018	4	2020		
Commanders Risk Reduction Dashboard (CRRD) Limited Deployment (LD)	4	2019	4	2019		
Commanders Risk Reduction Dashboard (CRRD) Full Deployment (FD)	1	2020	1	2020		
Commanders Risk Reduction Dashboard (CRRD) Development	3	2015	2	2020		
Commanders Risk Reduction Dashboard (CRRD) - Transition to Army Leader Dashboard	2	2020	3	2020		
ArmylgnitED MVP 1 Development	3	2022	3	2022		
ArmylgnitED MVP 1 Gov Testing	3	2022	4	2022		
ArmylgnitED MVP 1 Limited Deployment (LD)/Implementation	4	2022	4	2022		
ArmylgnitED MVP 2a Development	4	2022	1	2023		
ArmylgnitED MVP 2a Gov Testing	4	2022	1	2023		
ArmylgnitED MVP 2a Limited Deployment / Implementation	1	2023	1	2023		
ArmylgnitED MVP 2b Development	1	2023	2	2023		
ArmylgnitED MVP 2b Gov Testing	1	2023	2	2023		
ArmylgnitED MVP 2b Limited Deployment / Implementation	2	2023	2	2023		
ArmylgnitED MVP 2c Development	2	2023	3	2023		
ArmylgnitED MVP 2c Gov Testing	2	2023	3	2023		
ArmylgnitED MVP 2c Limited Deployment / Implementation	3	2023	3	2023		
ArmylgnitED MVP 3 Development	3	2023	3	2023		
ArmylgnitED MVP 3 Gov Testing	3	2023	3	2023		
ArmyIgnitED MVP 3 Full Deployment (FD) / Implementation	3	2023	4	2023		
ArmylgnitED Capability Support	4	2023	4	2028		

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Mar	ch 2023			
Appropriation/Budget Activity 2040 / 5	-	Element (Numbe I Information Tech	,	Project (Number/Name) 099 / Army Human Resource System				
		St	art	E	ind			
Events		Quarter	Year	Quarter	Year			
Continuous Enhancements (RDT&E)		1	2024	4	2028			

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	rmy							Date: Mare	ch 2023	
Appropriation/Budget Activity 2040 / 5							t (Number/ ation Techn	,	Project (N 184 / Insta		ne) oort Modules	
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
184: Installation Support Modules	-	13.716	1.324	-	-	-	-	-	-	-	0.000	15.040
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project supports the U.S. Army Coalition Interoperability Assurance and Validation (CIAV) Research Network provides an enduring and agile capability to execute approved processes and provide and maintain a repeatable and persistent infrastructure within the assurance and validation Coalition partner environment designed to ensure the succinct exchange of critical mission data between Mission Partners throughout all phases of military operations and enable the Army's implementation of Mission Partner Environment (MPE) and Combined-Joint All Domain Command and Control. CIAV uses a mission-based interoperability approach to identify capabilities, limitations and associated operational impacts and provides recommendations to improve or resolve information exchange issues between the U.S. Army and its mission partners. Funding facilitates coalition interoperability information exchange issue in compliance with AR 34-1 Multinational Force Interoperability and DODI 8110.01, Mission Partner Environment (MPE) Information Sharing Capability Implementation for the DOD.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Army Behavioral Health Integrated Data Environment	1.216	1.276	-
Description: Army Behavioral Health Integrated Data Environment (ABHIDE) will be the U.S. Army Center for Health Promotion and Preventive Medicine (CHPPM) Suicide Registry.			
FY 2023 Plans: FY23 RDTE funding continues support of the Army Behavioral Integrated Data Environment (ABHIDE) registry Database and support the Independent Verification and Validation analysis.			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease is due to the effort being accomplished.			
Title: SBIR/STTR Transfer	-	0.048	-
Description: Funding transferred in accordance with Title 15 USC §638			
<i>FY 2023 Plans:</i> Funding transferred in accordance with Title 15 USC §638			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC §638			
Accomplishments/Planned Programs Subtotals	1.216	1.324	-

Exhibit R-2A, RDT&E Project Jus	tification: PB	2024 Army							Date: Ma	rch 2023	
Appropriation/Budget Activity 2040 / 5						•	e r/Name) chnology Dev		lumber/Na allation Sup	a me) oport Module	es
							FY 2022	FY 2023			
Congressional Add: Program incr	ease - installa	tion access o	control techn	ology			4.500	-			
FY 2022 Accomplishments: FY20	22 Congressio	onal Add for	Installation /	Access Cont	rol Technolo	gy					
Congressional Add: Program Incr	ease - Smart i	nstallation a	nd communi	ty program			8.000	-			
FY 2022 Accomplishments: FY20	22 Congressio	onal Add for	Smart Instal	lation and C	ommunity Pi	rogram					
				Cong	ressional A	dds Subtota	als 12.500	-			
C. Other Program Funding Summ	on/(¢ in Milli	one)					1		_		
C. Other Program Funding Summ	iary (\$ 111 Willin	<u>0115)</u>	FY 2024	FY 2024	FY 2024					Cost To	
Line Item	FY 2022	FY 2023	Base	000	Total	FY 2025	<u>FY 2026</u>	FY 2027	<u>FY 2028</u>	Complete	
• BE4162: MACOM AUTOMATION SYSTEMS	50.105	46.433	35.014	-	35.014	39.241	39.336	36.449	36.763	Continuing	Continuing
<u>Remarks</u>											
D. Acquisition Strategy Installation Support Modules is in F enhancements as defined by the F transfer to an Army Data Center ar	unctional Prop	onent, Army	Chief Inforr								

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	024 Army	y								Date:	March 20)23	
Appropriation/Budge 2040 / 5	et Activity	1					5013A / I		lumber/N			: (Numbe stallation	r/Name) Support N	lodules	
Management Service	es (\$ in M	illions)	ſ	FY 2	2022	FY 2	023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.048		-		-		-	0.000	0.048	-
		Subtotal	-	-		0.048		-		-		-	0.000	0.048	N/A
Product Developmer	nt (\$ in M	illions)	ſ	FY 2	2022	FY 2	023		2024 ase		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Army Behavioral Health Integrated Data Environment	C/FFP	various : various	11.952	1.216	Feb 2022	-		-		-		-	Continuing	Continuing	-
Program increase - installation access control technology	TBD	TBD : TBD	-	4.500		-		-		-		-	0.000	4.500	-
Program Increase - Smart installation and community program	TBD	TBD : TBD	-	8.000		-		-		-		-	0.000	8.000	-
	L.	Subtotal	11.952	13.716		-		-		-		-	Continuing	Continuing	N/A
Test and Evaluation	(\$ in Milli	ons)		FY 2	2022	FY 2	023		2024 ase		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Independent Verification and Validation (IVV) Testing	C/T&M	GDIT Corp : various	12.611	-		1.276		-		-		-	0.000	13.887	-
		Subtotal	12.611	-		1.276		-		-		-	0.000	13.887	N/A
			Prior Years	FY 2	2022	FY 2	023		2024 ase		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	24.563	13.716		1.324		-		-		-	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2024 Arm	у				Date:	March 20	23	
Appropriation/Budget Activity 2040 / 5			-	ement (Number/N Information Techno		ct (Numbe	,	lodules	
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

hibit R-4, RDT&E Schedule Profile: PB 202	24 Arm	ny							4 5															e: Ma			23		
propriation/Budget Activity 40 / 5								PE		6050	013/	n Ele A / In												er/N n Su			100	lules	
		F`	Y 201	5		FY	201	6		F	TY 2	017		1	FY	2018	3		FY	2019)		FY 2	2020)		F١	Y 20	21
		1	2 3	4	1	2	3	4	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	1	2 3	4
																			-										
ISM Post Deployment Software Support																													
ISM Post Deployment Software Support																							. <u></u>						
ISM Post Deployment Software Support		F`	Y 202	2		FY	202	3		F	=Y 2	024			FY	202	5		FY	2026	5		FY 2	2027			F١	Y 20	8
ISM Post Deployment Software Support			Y 202 2 3	-	1	FY 2			4		=Y 2 2		4	1	FY 2	1	-	1	FY 2		5 4	1	FY 2		4		-		28

ibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: March	h 2023
oropriation/Budget Activity 0 / 5	R-1 Program PE 0605013A <i>elopment</i>	Element (Number I Information Tech	/ Name) nology Dev	Project (Number/Nam 184 / Installation Suppo	ie) ort Modules
	Schedule Detail	S			
		Sta	rt	En	nd
Events		Quarter	Year	Quarter	Year
ISM Post Deployment Software Support		4	2003	4	2017

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	vrmy							Date: Mare	ch 2023	
Appropriation/Budget Activity 2040 / 5						am Elemen I3A <i>I Inform</i>			Project (N BY3 I Infor		ne) tems for Inst	allations
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
BY3: Information Systems for Installations	-	-	1.022	1.024	-	1.024	2.615	2.024	2.216	2.823	0.000	11.724
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Virtual Testbed for Installation Mission Effectiveness (VTIME) is the Army's planned installation common operating picture, analysis, visualization and planning tool, serving as an integrating and processing hub for numerous Army Installations of the Future (lotF) technologies, supporting users across echelons. VTIME will support the Army installation enterprise with a near real-time common operating picture of data spanning functional areas and offer a modern analytic platform to support Army implementation of the Army Installations Strategy, Army Data Strategy, and Army Business Management Plan. VTIME is a cloud-based solution, being planned and prototyped to adapt and use a combination of commercially available technologies to comprehensively integrate and understand diverse installation data sources. VTIME will provide a novel capability to apply artificial intelligence and machine learning to improve strategic, operational, and tactical installation decision-making, spanning functions such as facility investment planning, space and land assignment, master planning, and Garrison operations. VTIME is being designed to support hybrid-cloud implementations, to offer installations the ability to support operations under network-contested conditions. This integrated and comprehensive tool will allow the senior commander to both maneuver in a complex battlespace by providing the ability to prevent, protect and recover from hazards and enable cost saving through improved decision-making and operational efficiencies, supporting future integrations of emerging lotF technology.

Work is performed by the United States (U.S.) Army Engineer Research and Development Center.

Work in this Project is related to, and fully coordinated with, PE 0605013A (Information Technology Development) and Project T05 (Army Business System Modernization Initiatives).

Work in this Project supports the Army Installations Strategy as a critical enabler (data analytics) for modernization.

Work in this Project complements the Office of the Assistant Secretary of the Army (Installations, Energy & Environment)'s Installations of the Future Program.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Installation Data Source Integration	-	0.881	1.024
Description: This effort serves as the foundation for VTIME analytic, planning and visualization capabilities; this effort identifies, catalogs, acquires, and establishes agreements and protocols for integration of diverse installation enterprise data sources spanning functional areas and echelons. This includes potentially dozens of data sources and programs, including many datasets that lack modern data interfaces.			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	/larch 2023	
Appropriation/Budget Activity 2040 / 5		ect (Number/ Information	Name) Systems for In	stallations
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<i>FY 2023 Plans:</i> FY23 RDTE funding will continue data alignment, transformation, and data sources; will adopt standards for user-provided datasets and in operating picture (COP); and will deploy preliminary 'Crawl' VTIME	mplement automation support to incorporate into the common			
FY 2024 Plans: Will continue data alignment and transformation of emerging data s new datasets in the Installations of the Future Program, and implem operating picture (COP). It will continue deployment of preliminary "	nent automation of emerging datasets into the VTIME common			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding increase reflects the planned lifecycle for this effort towards	s the integration of more complex emerging datasets.			
Title: Requirements Definition		-	0.104	-
Description: This effort focuses on establishing and documenting f implementation architecture for VTIME, and performance measures				
FY 2023 Plans: FY23 RDTE funding will provide continued stakeholder engagemen acquisition plans.	its and complete functional requirement definition and update			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease is due to effort accomplishment.				
Title: SBIR/STTR		-	0.037	-
Description: Funding transferred in accordance with Title 15 USC	§638			
FY 2023 Plans: Funding transferred in accordance with Title 15 USC §638				
FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC §638				
· · · · · · · · · · · · · · · · · · ·		-	1.022	1.02

Exhibit R-2A, RDT&E Project Justification: PB 2024 Ar	my	Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) BY3 I Information Systems for Installations
C. Other Program Funding Summary (\$ in Millions)		
<u>Remarks</u>		
N/A		
D. Acquisition Strategy N/A		

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2024 Arm	у								Date:	March 20	23	
Appropriation/Budge 2040 / 5	et Activity	1					5013A / <i>Iı</i>		lumber/Na on Technol			t (Number	r/ Name) a Systems	for Insta	llations
Management Service	es (\$ in M	illions)		FY	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Data alignment and transformation	MIPR	ERDC-CERL : Champaign Illinois	-	-		0.363	Oct 2022	0.563	Oct 2023	-		0.563	0.000	0.926	-
SBIR/STTR	TBD	Various : Various	-	-		0.037		-		-		-	0.000	0.037	-
	·	Subtotal	-	-		0.400		0.563		-		0.563	0.000	0.963	N/A
Product Developmer	nt (\$ in M	illions)		FY	2022	FY 2	2023		2024 ase	FY 2	2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Adopt dataset standards	MIPR	ERDC-CERL : Champaign Illinois	-	-		0.326	Oct 2022	0.461	Oct 2023	-		0.461	0.000	0.787	-
	1	Subtotal	-	-		0.326		0.461		-		0.461	0.000	0.787	N/A
Support (\$ in Million	s)			FY	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Stakeholder engagements	MIPR	ERDC-CERL : Champaign Illinois	-	-		0.025	Oct 2022	-		-		-	0.000	0.025	-
Complete functional requirement definition & update acquisition plans	MIPR	ERDC-CERL : Champaign Illinois	-	-		0.111	Oct 2022	-		-		-	0.000	0.111	-
		Subtotal	-	-		0.136		-		-		-	0.000	0.136	N/A
Test and Evaluation	(\$ in Milli	ons)		FY	2022	FY 2	2023		2024 ase	FY 2	2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Deploy data integration implementation	MIPR	ERDC-CERL : Champaign Illinois	-	-		0.160	Oct 2022	-		-		-	0.000	0.160	-
		Subtotal	-	-		0.160		-		-		-	0.000	0.160	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army									Date:	Date: March 2023				
Appropriation/Budget Activity 2040 / 5				-	PE 0605013A I Information Technology Dev					Project (Number/Name) BY3 I Information Systems for Installations				
	Prior Years	FY	2022	FY 2023		2024 ase	FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals	-	-		1.022	1.024		-		1.024	0.000	2.046	N/A		

Remarks

xhibit R-4, RDT&E Schedule Profile: PB 2024 Army Date: March 24 ppropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name) 040 / 5 PE 0605013A / Information Technology Dev elopment BY3 / Information Systems									
EventName	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028		
Event Name	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		
Installation Data Source Integration									
Requirements Definition									

xhibit R-4A, RDT&E Schedule Details: PB 2024 Army					Date: Marc	h 2023
ppropriation/Budget Activity 040 / 5	,	Project (Number/Name) BY3 I Information Systems for Installations				
	Schedule Details					
		St	tart		Er	nd
Events	G	Quarter	Year	C	Juarter	Year
Installation Data Source Integration		1	2023		4	2027
Requirements Definition			2023			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army									Date: March 2023			
Appropriation/Budget Activity 2040 / 5						am Elemen I3A I Inform			Project (Number/Name) DH1 / Operational Medicine Information System			
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
DH1: Operational Medicine Information System	-	-	-	4.241	-	4.241	-	-	-	-	0.000	4.241
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Operational Medicine Information System is a new start within the Information Technology Development program in FY 2024.

This is a New Start in FY24

A. Mission Description and Budget Item Justification

The Operational Medicine Information System-Army (OMIS-A) is the Army's single Information Management/Information Technology system for automation and digitization efforts for deployable medical forces, providing both Joint Service and Army-specific operational health information technology (OHIT) software to deployable medical care units. The OMIS-A will integrate and interface Force Health Protection and medical surveillance information with Army Mission Command information technology systems. The OMIS-A fulfills the requirements highlighted in United States Code: Title 10, Subtitle A, Part II, Chapter 55, Section 1074f, mandating the proper documentation of deployed Service members' medical treatment to include its associated medical surveillance. The near and mid term effort is the modernization of the Army component of the Defense Healthcare Management Systems (DHMS) Joint Operational Medical Information System (JOMIS) next generation electronic health record (NGEHR) software.

RDTE efforts on legacy requirements for medical information technology systems completed in FY 2020. Modernized NGEHR requirements have been developed, and beginning in FY24, the OMIS-A mission is to provide increased efficiency in delivering those capabilities that have changed as technology matures. OMIS-A will integrate Joint solutions and develop additional operational medical information technology (IT) capabilities, leveraging operational communications infrastructure, that unencumber commanders, increase patient survivability and return to duty far forward on the battlefield, and contribute to the lifelong care of Soldiers, documenting and providing care from point-of-injury (POI) through the continuum of care. Documented medical data has far-reaching implications that influence everything from immediate medical situational awareness and trauma research to the lifelong care provided to the Soldier. The modernized requirements are not anticipated to be fulfilled by a single system or software program but by multiple, interoperable systems. Funding provides engineering, developmental testing, software development and integration of information technology to support Force Health Protection in accordance with the medical Information Technology capabilities required for Multi Domain Operations (MDO) and Large Scale Combat Operations (LSCO).

FY 2024 Base funding in the amount of \$4.241 million will be used for the engineering effort required to evaluate, develop and test initiatives that improve the performance of the JOMIS NGEHR software on the Army platform.

Activities include:

-- Independent evaluation, verification and validation of modernized JOMIS software operating on Army infrastructure, ensuring effective operation and cyber security

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date:	March 2023						
Appropriation/Budget Activity 2040 / 5									
Testing on all Army networks, and Army operations on network NGEHR may reside	s in foreign countries, maintaining Authority to Operate/Aut	hority to Connect o	n all networks	where					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024					
Title: Engineering for integration of JOMIS NGEHR		-	-	2.13					
Description: Independent evaluation, verification and validation of ensuring effective operation and cyber security	f modernized JOMIS software operating on Army infrastruc	cture,							
 FY 2024 Plans: Independent evaluation, verification and validation of modernized Ensuring effective operation and cyber security Development of any sets of software artifacts (threads, reports, for specific external system interface with other components of the Management of configuration and quality assurance for overall Demonstrate that the engineering design and development pro system will meet specifications, and whether the engineering designer of and the engineering designer of and the engineering designer. Maintaining Authority to Operate/Authority to Connect on all negative specifications. 	queries, or scripts, or data export schemas) e Army system system cess is complete, the design risks have been minimized, th gn is supportable (practical, maintainable, safe, etc.).	e							
FY 2023 to FY 2024 Increase/Decrease Statement: This Effort is a New Start in FY24									
Title: Comprehensive Testing		-	-	2.10					
Description: Independent evaluation, verification and validation of ensuring effective operation and cyber security Testing on all Army networks, and Army operations on networks Maintaining Authority to Operate/Authority to Connect on all networks	s in foreign countries	cture,							
<i>FY 2024 Plans:</i> 1. Planning to address identification of test objectives, baselines a configurations to be tested, development of Use Cases to fully exert the key stroke level, Entrance/Exit criteria, Pass/Fail criteria, failur 2. Testing on all Army networks, and Army operations on network 3. Documentation of the results of all testing	ercise the application's functionality, step-by-step procedure e identification and analysis, schedules	es at							
3. Documentation of the results of all testing									

Exhibit R-2A, RDT&E Project Jus	tification: PB	2024 Army							Date: Ma	arch 2023	
Appropriation/Budget Activity 2040 / 5					05013A I Inf	nent (Numb formation Tec	er/Name) chnology Dev	-	t (Number/N Operational N 1		mation
B. Accomplishments/Planned Pro	ograms (\$ in I	<u>/lillions)</u>							FY 2022	FY 2023	FY 2024
This Effort is a New Start in FY24											
				Accon	nplishment	s/Planned P	rograms Sub	totals	-	-	4.241
C. Other Program Funding Summ	nary (\$ in Milli	<u>ons)</u>									
Line Item • B80015: OPERATIONAL MEDICINE INFORMATION SYSTEMS - ARMY	FY 2022 -	<u>FY 2023</u> -	<u>FY 2024</u> <u>Base</u> 1.374	<u>FY 2024</u> <u>OCO</u> -	<u>FY 2024</u> <u>Total</u> 1.374	<u>FY 2025</u> -	<u>FY 2026</u> -	<u>FY 202</u> -	7 FY 2028 -	Cost To Complete 0.000	Total Cost
Remarks - OPA provides licenses necessary	to field mode	rnized softwa	are.								

D. Acquisition Strategy

The OMIS-A Program supports a number of Army Medical Operational Health Information Technology (OHIT) /Communications initiatives. The near and mid-term focus of the OMIS-A program is to engineer, design, integrate, test, acquire and field the Army OHIT capabilities provided by the Defense Healthcare Management Systems (DHMS) Joint Operational Medical Information System (JOMIS) next generation electronic health record (NGEHR) software. Since NGEHR software is a major component of the OMIS-A System and being developed in minimum viable capability releases (MVCR) by the Joint Program, the OMIS-A Program will deliver integrated capabilities in MVCRs, recognizing the need for future system updates and planned upgrades. In addition to the NGEHR modernized software application suite and future modernized capability, OMIS-A will develop and deliver other Army specific OHIT requirements, working with the user community to continually define and refine additional OHIT requirements and match them with available technologies to provide the user enhanced capabilities. The first of these requirements is to modify/develop all software to operate on agnostic Army hardware solutions, and not require specialized hardware procurements.

OMIS-A will utilize the Software Acquisition Pathway and Agile development to provide these modernized and enhanced capabilities to the user at the earliest possible date. The iterative design, development and test approach yields the most operationally useful minimum viable product capability in the shortest time possible with Cost As an Independent Variable. Moreover, this approach provides initial capabilities with the explicit intent of delivering improved and updated capability in subsequent updates and planned upgrades. This development approach will be accomplished with active Army medical sponsors and user engagement early and throughout the process. Appropriate commercial technology enhancements (e.g. advances in operating systems, voice activated technology, cloud computing capability environment, etc.) will be incorporated into OMIS-A products and systems as they become available. Each OMIS-A System component will undergo a full range of developmental testing to include software unit testing, integration testing, interoperability testing and software qualification testing. All OMIS-A system updates and planned upgrades will continue to undergo follow-on testing.

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2024 Arm	у								Date:	March 20	23	
Appropriation/Budge 2040 / 5	t Activity	,					5013A / I	•	umber/Na n Technol			•	r/ Name) al Medicine	e Informa	ition
Product Developmer	nt (\$ in Mi	illions)		FY	2022	FY :	2023	FY 2 Ba	-	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering for Integration of JOMIS NGEHR	C/CPFF	TBD : TBD	-	-		-		2.139	Jan 2024	-		2.139	0.000	2.139	-
		Subtotal	-	-		-		2.139		-		2.139	0.000	2.139	N/A
Test and Evaluation	(\$ in Milli	ons)		FY	2022	FY :	2023	FY 2 Ba		FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Comprehensive Testing	C/CPFF	TBD : TBD	-	-		-		2.102	Jan 2024	-		2.102	0.000	2.102	-
		Subtotal	-	-		-		2.102		-		2.102	0.000	2.102	N/A
			Prior Years	FY	2022	FY	2023	FY 2 Ba		FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	-	-		-		4.241		-		4.241	0.000	4.241	N/A

Remarks

New requirements for modernization of the operational electronic health system have been established. RDTE starting in 2024 is required to evaluate, address and develop the modernization which is expected to be fulfilled by multiple, interoperable systems. Funding after FY24 for this project 0605013A-DH1 will be established and provided in POM 25.

xhibit R-4, RDT&E Schedule Profile: PB 2024 A	rmy							Date: N	/larch 20	23
ppropriation/Budget Activity 040 / 5				013A I Infoi	ent (Number/Nam rmation Technolog	Project (Number/Name) DH1 / Operational Medicine Information System				
Event Name	FY 2022	FY 20	023 FY 2024 FY 20				FY 2026 FY 2027		FY 2028	
Event Name	1 2 3 4	1 2 3	4 1	2 3 4	4 1 2 3 4	1	2 3 4	1 2	3 4	1 2 3
Integrate Joint modernized minimum viable capability rel										
Army delivery of JOMIS NGEHR V.1 (modernized) minimum vi										

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: Mare	ch 2023		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Numbe PE 0605013A / Information Tech elopment		Project (Number/Name) DH1 / Operational Medicine Informatic System			
Sc	hedule Details					
	St	art	E	nd		
Events	Quarter	art Year	E Quarter	nd Year		
Events Integrate Joint modernized minimum viable capability release (MVCR) so NGEHR	Quarter			1		

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	rmy								Date: March 2023		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name)Project (Number/Name)PE 0605013A I Information Technology DevFL9 I Army Accessioning ITelopmentElopment							opment				
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	
FL9: Army Accessioning IT Development	-	5.183	6.479	2.288	-	2.288	2.337	2.385	2.436	2.487	0.000	23.595	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

A. Mission Description and Budget Item Justification

HRC Accessioning IT: This program supports the development requirements for the US Army Human Resources Command (USAHRC) which provides the IT solutions and automation support necessary to accomplish the Army's Accessioning mission. The AIE acquisition program utilizes the DoD 500.75 business Capability Acquisition Cycle (BCAC) currently in the Requirements and Acquisition Planning Phase.

Army Suicide Prevention: This Program Element (PE) develops a pre-entry or entry assessment package that enhances the Soldier Lifecycle (e.g., selection, assignment, training, leader development). This PE enhances the Army's ability to identify individuals with a higher likelihood of having already experienced, or of potentially experiencing, sub- clinical behavioral issues, as well as to identify character strengths (e.g., resilience, grit), to ensure that the Army can meet mission requirements in the current and future operating environments. Research in this PE will result in more precise determinations of individual potential for future successful service, and more targeted identification of need for individual assistance (e.g., intervention, training, behavioral health) to increase likelihood of future success.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: HRC Accessioning IT	3.231	3.876	-
Description: Description: Funding supports the development requirements for the US Army Human Resources Command (USAHRC) which provides the IT solution and automation support necessary to accomplish the Army's Accessioning mission.			
The AIE acquisition program utilizes the DoD 5000.75 Business Capability Acquisition Cycle (BCAC) currently in the Requirements and Acquisition Planning Phase.			
<i>FY 2023 Plans:</i> Program funding for AIE in FY24 and beyond has transitioned to PE 0605233A; Project Number CP8. FY 2023 funds were in support of the Army's accessioning mission to include the legacy cloud system capabilities for Army Recruiting Information Support System (ARISS) and successful implementation of AIE. Efforts are ongoing for Cloud migration/modernization and AIE technical analysis and documentation to support the accessioning mission. Currently HRC does not have a valid requirement to execute these funds. Requested that the funds be reprogrammed into 655013FM7, awaiting approval on this request prior to funds expiration.			
FY 2023 to FY 2024 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	Project (Number/Name) v FL9 / Army Accessioning IT Develop			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024	
FY 2024 Funding realigned based on higher Army priorities.					
Title: Army Suicide Prevention		1.952	2.365	2.28	
Description: This Program Element (PE) develops a pre-entry of (e.g., selection, assignment, training, leader development). This a higher likelihood of having already experienced, or of potential identify character strengths (e.g., resilience, grit), to ensure that future operating environments. Research in this PE will result in successful service, and more targeted identification of need for in to increase likelihood of future success.	PE enhances the Army's ability to identify individuals with ly experiencing, sub-clinical behavioral issues, as well as to the Army can meet mission requirements in the current and more precise determinations of individual potential for future				
Work in this PE is performed by the U.S. Army Resiliency Director	orate in Arlington, VA.				
FY 2023 Plans: FY 2023 funds will support the continued assessment of sub-clin and protective factors and preventive approaches for harmful be data and analytical tools.					
FY 2024 Plans: FY 2024 funds will support the continued assessment of sub-clin and protective factors and preventive approaches for harmful be analytical tools.					
FY 2023 to FY 2024 Increase/Decrease Statement: Funding change reflects the planned lifecycle of this effort					
Title: SBIR/STTR Transfer		-	0.238	-	
Description: Funding transferred in accordance with Title 15 US	SC §638				
FY 2023 Plans: Funding transferred in accordance with Title 15 USC §638					
FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC §638					
	Accomplishments/Planned Programs Sub	totals 5.183	6.479	2.28	

Exhibit R-2A, RDT&E Project Just	ification: PB	2024 Army							Date: Ma	rch 2023	
Appropriation/Budget Activity 2040 / 5						•	e r/Name) chnology Dev	Project (N FL9 / Arm	elopment		
C. Other Program Funding Summ	ary (\$ in Milli	ons <u>)</u>									
			<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>					Cost To	
Line Item	FY 2022	FY 2023	Base	000	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total Cost
• BE4164: PERSONNEL AUTOMATION SYSTEMS	45.021	23.015	8.139	-	8.139	15.276	19.919	16.804	15.097	Continuing	Continuing
• OMA - AIE - OMA/331715000: Sustainment Support & CivPay	-	-	-	-	-	-	-	-	-		

<u>Remarks</u>

Note, the (OPA) (BD3000/BE4164) line listed above includes AIE specific [FY20: \$19,878K, FY21: \$29,791K] to fund support fielding efforts, Commercial off the Shelf (COTS) Software Licenses, and Training. In more detail, FY22 and beyond rests within the new (OPA) (B45000/B45015).

D. Acquisition Strategy

Army Suicide Prevention:

The Army Suicide Prevention Pilot is an ongoing study on the efficacy of Resilience and Mindfulness training throughout the Army from Accessioning through IET to home station across an initial six Brigade Combat Teams, US Army Reserve units in the Joint Base San Antonio Area, and the South Carolina National Guard by using the BH Pulse tool, the Global Assessment Tool (GAT), and the efficacy of Resilience and Mindfulness training to baseline the Resilience of the unit. Data from the surveys will be used to tailor specific Resilience training on mitigating strategies to combat behaviors and risk contributing to Suicide.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2024 Army	/								Date:	March 20)23	
Appropriation/Budge 2040 / 5	et Activity	1					o gram Ele 5013A / Ir nt	•		•		rmy Acce	r/ Name) ssioning l	T Develoj	oment
Management Servic	es (\$ in M	illions)		FY	2022	FY 2	2023	FY 2 Ba		FY 2 OC	2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SBIR/STTR Transfer	TBD	Various : Various	-	-		0.238		-		-		-	0.000	0.238	-
		Subtotal	-	-		0.238		-		-		-	0.000	0.238	N/A
Product Developme	nt (\$ in Mi	illions)		FY	2022	FY 2	2023	FY 2 Ba		FY 2 O(FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Army Suicide Prevention	TBD	TBD : TBD	2.786	1.952	Feb 2022	2.365	Feb 2023	2.288		-		2.288	Continuing	Continuing	Continuing
HRC Core IT ARISS	C/CPFF	SAIC : Reston, VA	2.919	3.231	Jan 2022	3.876		-		-		-	0.000	10.026	3.861
		Subtotal	5.705	5.183		6.241		2.288		-		2.288	Continuing	Continuing	N/A
			Prior Years	FY	2022	FY 2	2023	FY 2 Ba		FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	5.705	5.183		6.479		2.288		-		2.288	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024	Army						Date: March 20	23
Appropriation/Budget Activity 2040 / 5					Number/Name) ny Accessioning IT Development			
Event Name	FY 2022	FY 20		FY 2024	FY 2025	 Y 2026	FY 2027	FY 2028
HRC Accessioning IT	ARISS			1 2 3 4		 2 3 7		1 2 3 4
Army Suicide Prevention	Army Suicide Prevention	with Resiliency fro	m Accese	oning to IET to Home St	ation			
					1		1	

xhibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: Mar	ch 2023
ppropriation/Budget Activity 040 / 5	R-1 Program Element (N PE 0605013A / Information elopment	Project (Number/Na FL9 / Army Accession		
	Schedule Details			
		Start	E	ind
Events	Quarte	er Year	Quarter	Year
HRC Accessioning IT	2	2021	4	2029
Army Suicide Prevention	3	2020	4	

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	vrmy						Date: March 2023				
Appropriation/Budget Activity 2040 / 5			am Elemen I3A / Inform		Number/Name) man Resouces Information gy								
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	
FM7: Human Resouces Information Technology	-	12.497	11.574	11.449	-	11.449	6.941	7.060	9.591	7.301	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

A. Mission Description and Budget Item Justification

The efforts under this project support the Army's Human Resources Information Technology needs.

ARIMS is the Army's policy and enterprise system deployed to meet statutory (36 CFR) and regulatory (AR 25-1, AR 25-400-2) requirements to manage records that document the policies, decisions, and actions of the Army both as a military department and federal institution. ARIMS supports approximately 58,000 registered users with tools and capabilities to collect and preserve Army records, serves as the records management component of the Army Electronic Archives (AEA), and the Secretary of the Army has mandated its use to collect and preserve Army records. ARIMS is in production on the SIPRNet with ARIMS-Classified (ARIMS-C) to provide similar capabilities for the collection and preservation of the Army's classified records. ARIMS is an integrated system that supports the SecArmy objective to integrate management systems for the Army's records management programs and business operations. This line item funds for system, network, and application sustainment for the ARIMS and ARIMS-C infrastructure. Technology changes, integration, and systems migration require contractor support to ensure the AEA continues to preserve essential electronic records. These activities support the ARIMS applications and comply with the SecArmy and Senior Army leadership to integrate and standardize management systems for business operations. Failure to fund will result in the loss of expertise and in extensive down time in the event of any hardware or software failure in the ARIMS infrastructure. ARIMS downtime precludes the collection and preservation of the Army long-term important records (such as past Contingency Operations (CONOPS) records). As a web-based and customized GOTS system, ARIMS is dependent on private industry expertise to conduct troubleshooting and correction of any application or operating system component that is the foundation of the ARIMS and ARIMS-C systems. These skill sets are not maintained by government staff and must, by DoD directive (C3I), be acquired from the private sector.

Army SHARP Data Management System (DMS) Integrated Case Reporting System (ICRS) enhancements will provide stabilization for sexual harassment (SH) data collection, reporting requirements, and analytic processes; ICRS maintains Army sexual assault (SA) legacy data collected prior to 2014 in the Sexual Assault Data Management System (SADMS) IAW public law.

Family Advocacy System of Records (FASOR) is the information system used by the Army to manage child and adult based abuse incidents referred by the Family Advocacy Program (FAP). FASOR is used to capture/perform incident case management and allows for standardization of reviews and incident determinations. FASOR is a key system used in FAP Army Central Registry (ACR) background checks when determining suitability of individuals to be placed into "positions of trust". Finally, FASOR facilitates reporting and data analysis in support of internal, Army, DoD, FOIA and Congressional requirements.

Human Resource Command (HRC) Core IT: This program supports efforts to plan, design, develop, and test Information Technology (IT) solutions to fulfill the Army's Warfighter Support Mission, accommodate emerging Army requirements, and fulfill Future Army needs. Ongoing development efforts support multiple functional areas including logistics, personnel, transportation, training, medical/health protection, and the sustaining base. The focus of the rationalization effort is to identify value-added

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023
Appropriation/Budget Activity	0 ()		umber/Name)
2040 / 5	PE 0605013A I Information Technology Dev	FM7 I Hum	nan Resouces Information
	elopment	Technology	У

applications capable of serving a broader Army enterprise audience and garnering efficiencies through the elimination of outdated, legacy, and duplicative applications. Applications are upgraded or enhanced to meet compliance with Army Common Operating Environment standards in accordance with Army Application Management Business Office (AAMBO). Additionally, program supports enhancements and modifications to the Interactive Personnel Electronic Records Management System (iPERMS) and iPERMS-Secure (iPERMS-S), as well as development of interfaces based upon emerging requirements, Cybersecurity, functionality and compliance with Army standards.

TRANSITION ASSISTANCE PROGRAM XXI (TAP XXI): The Transition Assistance Program XXI (TAP-XXI) application provides an interactive, multimedia approach to pre-separation counseling and job assistance training. This application uses full motion video, graphics, and sound to train clients; and schedules clients for classroom-type instruction. It integrates a complete range of transition services and benefits for service members, Department of Defense civilian employees, and their family members as they transition from the military. TAP-XXI is a web-based, three-tiered application with a centralized database for all Transition sites. The user interface is browser-based, the application is based on a storefront intranet model to provide access from within Transition centers. The user interface is browser-based, the application and de-mobilizing during Yellow Ribbon Program events or delivery of services at home station. There is no application processing on the desktops located at Transition Centers. TAP-XXI application suite consists of the following subsystems: Transition Assistance Program - Support (TAP-Support), Transition Assistance Program -Online (TAP-Online) and TAP Virtual (Immersive Terf). The infrastructure modernization will provide system stability, support expansion requirements, and ensure reliable customer support.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: ARIMS	1.025	2.052	2.103
Description: This funds contractor man-years for technical and analytical expertise in the integration and validation of operational databases including Army Historical Records Online (AHRO) used to store and research combat records from combat operations in Korea, Vietnam, Somalia, Panama, Persian Gulf, Afghanistan, Iraq, and other contingency operations. The effort supports unique operational databases that directly support research into Veteran claims for Post-Traumatic Stress Disorder, Agent Orange, and other medical conditions developed by Soldiers during combat and non-combat operations. Supports the Army's Data Center Consolidation by turning data base structure to be more efficient and reduce maintenance support costs.			
Increased Congressional inquiries and litigation have raised leadership awareness of the need to improve records management compliance Army-wide. SecArmy directed workgroup, led by the AASA, with participation by the CIO/G-6, NETCOM, OGC, and OCLL is to provide a comprehensive solution for the Army and integrate and standardize management systems for the Army's business operations. Enhancing and modernizing of existing ARIMS functionality and capability to support the SecArmy initiative includes updating ARIMS to support current technology such as Microsoft Office 365 environment, expanding storage capability, including network storage , and commensurate expansion of backup, security and communications capabilities over CONUS and OCONUS networks.			
FY 2023 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: M	arch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	-		lame) buces Informa	tion
B. Accomplishments/Planned Programs (\$ in Millions)		F	FY 2022	FY 2023	FY 2024
Funds are used to sustain technology refresh efforts ensuring the Army's recorrequirements, preserves individual record integrity, mitigates the risk of historic records are available for Congressional, Government Accountability Office, Exe contractor man-years to sustain this system through an IT Services contract (W	al information loss, and ensures official Army ecutive Branch, and FOIA requirements. We fit	und			
FY 2024 Plans: Funds are used to sustain technology refresh efforts ensuring the Army's recorrequirements, preserves individual record integrity, mitigates the risk of historic records are available for Congressional, Government Accountability Office, Exercontractor man-years to sustain this system through an IT Services contract (W	al information loss, and ensures official Army ecutive Branch, and FOIA requirements. We fit	und			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding change reflects the planned lifecycle of this effort					
Title: Army SHARP Data Management			0.996	0.986	1.117
Description: Army SHARP Data Management System (DMS) Integrated Case provide stabilization for sexual harassment (SH) data collection, reporting require Army sexual assault (SA) legacy data collected prior to 2014 in the Sexual Ass public law.	irements, and analytic processes; ICRS mainta				
<i>FY 2023 Plans:</i> Maintain ability of Army leaders at all levels to manage ICRS data through E-Dewithin ICRS. Increase support of Advanced Analytics capabilities, increase bus predictive analysis for SHARP Data to inform increased Prevention efforts.		oilities			
FY 2024 Plans: Maintain ability of Army leaders at all levels to manage ICRS data through E-Dewithin ICRS. Increase support of Advanced Analytics capabilities, increase bus predictive analysis for SHARP Data to inform increased Prevention efforts.		oilities			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding change reflects the planned lifecycle of this effort					
Title: Family Advocacy System of Records (FASOR)			1.409	1.415	1.544
Description: Family Advocacy System of Records (FASOR) is the information and child abuse incident management, central registry of victims and offenders	• • • • • • • • •				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: M	arch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	-		ame) uces Informa	tion
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024
required Congressional and public reporting. FASOR is the authoritative sein the Army. It is on the Army Human Resource Command's High Value A		abuse			
<i>FY 2023 Plans:</i> Modernize FASOR through the latest Business Process Reengineering Eff software development & architecture support as new functionality is implen FASOR data structure and data to a modernized structure.		5			
FY 2024 Plans: FY24 funding will provide continued software development & architecture is finalizing the migration of the legacy FASOR data structure and data to a minclude, but not limited to; Family Advocacy Program (FAP) Incident (Case Sexual Behavior-Child & Youth, and a New Parent Support Program.	nodernized structure. High level functionality modu	les			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding change reflects the current activities needed to ensure FASOR 2.0 Cloud according to Army Cyber Security directives.	0 becomes .MIL compliant and hosted in the C-Arr	ny			
Title: HRC Core IT			8.018	5.552	5.517
Description: HRC Core IT: This program supports efforts to plan, design, of to fulfill the Army's Warfighter Support Mission, accommodate emerging Ar Ongoing development efforts support multiple functional areas including log health protection, and the sustaining base.	rmy requirements, and fulfill Future Army needs.				
<i>FY 2023 Plans:</i> FY 2023 funding continues to support iPERMS enhancements and modific upon emerging requirements, cybersecurity, functionality, and compliance which also supports DA G1 Talent Management Task Force Battalion Com USAHRC will utilize FY 2022 to funding to complete rationalize data and da modernizing applications to leverage authoritative data sources to reduce of and applications requiring fewer infrastructure services. This data and app a standard infrastructure, reducing hardware and software complexities and Environment standards in accordance with Army Application Management <i>FY 2024 Plans:</i>	with Army standards and ASBS 2.0 development mand Assessment Program (BCAP). Additionally atabases to achieve the Army Data Strategy, duplicate application capabilities, resulting in data plication rationalization allows USAHRC to operate d meets compliance with Army Common Operating	,			
		I	I	I	

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: M	larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	-		lame) buces Informa	tion
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024
FY 2024 funding continues to support iPERMS enhancements and modification upon emerging requirements, cybersecurity, functionality, and compliance with and ASBS 2.0 development which also supports DA G1 Talent Management Ta Program (BCAP) which is estimated for completion by Sep 2023. Additionally, to complete rationalize data and databases to achieve the Army Data Strategy, data sources to reduce duplicate application capabilities, resulting in data and a This data and application rationalization allows USAHRC to operate a standard complexities and meets compliance with Army Common Operating Environmer Management Business Office (AAMBO).	Army standards, cArmy Cloud Migration effor ask Force Battalion Command Assessment USAHRC will utilize FY 2023 and FY 2024 fur modernizing applications to leverage authorit applications requiring fewer infrastructure serv I infrastructure, reducing hardware and softwa	s, nding ative ices. re			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding change reflects the planned lifecycle of this effort					
Title: SFL-TAP XXI Modernization			1.049	1.147	1.168
Description: Transition Assistance Program (TAP) XXI Modernization - Provide incorporate industry standards.	e new capability in order to create efficiencies	and			
FY 2023 Plans: Due to the delay in receiving approval of the Capability Requirements Document Appropriation is pending legal review. Specific work for FY21 includes developed Integration, 2. Case Synopsis Module; 3. New Data Elements; 4. Reporting Mo for FY22 includes development / addition of:1. Forms Upload Enhancements (N 3. Ad Hoc Reporting & Predictive Analytics 4. User Management Module 5. Cyl- implemented in FY 2023 to complete.	ment / addition of: 1. Produce Intake Form dule; 5. Cybersecurity Requirements. Specific //FR & DA Form 7746) 2. Data Warehouse Ins	tall			
FY 2024 Plans: The command has an estimated project completion to occur by expiration date is unable to provide a valid estimate completion date or correct appropriation bas of the legal opinion all necessary requirement actions will be in implemented by based on inflation to cover the Specific work for FY22 includes development / a 2. Case Synopsis Module; 3. New Data Elements; 4. Reporting Module; 5. Cyb includes development / addition of:1. Forms Upload Enhancements (MFR & DA Reporting & Predictive Analytics 4. User Management Module 5. Cybersecurity in FY 2024 to complete.	ased on pending legal opinion. Upon receipt funds expiration of FY 2024. The increase is iddition of: 1. Produce Intake Form Integration ersecurity Requirements. Specific work for FY A Form 7746) 2. Data Warehouse Install 3. Ad	, 23 Hoc			
FY 2023 to FY 2024 Increase/Decrease Statement:					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army	-	Date: March 2023							
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	FM7 / F	ject (Number/Name) 7 I Human Resouces Information hnology						
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024				
Funding change reflects the planned lifecycle of this effort									
Title: SBIR/STTR			-	0.422	-				
Description: Funding transferred in accordance with Title 15 USC §638									
FY 2023 Plans: Funding transferred in accordance with Title 15 USC §638									
FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC §638									
	Accomplishments/Planned Programs Sub	totals	12.497	11.574	11.44				
N/A <u>Remarks</u> <u>D. Acquisition Strategy</u> N/A									

Appropriation/Budg 2040 / 5	et Activity	/					5013A / Ir		umber/Na n Technol			luman Re		Iformatior	ז
Management Servic	es (\$ in M	illions)		FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SFLTAP	TBD	To Be Determined : To Be Determined	0.615	0.652		0.850		-		-		-	0.000	2.117	-
SBIR/STTR	TBD	Various : Various	-	-		0.422		-		-		-	0.000	0.422	-
	!	Subtotal	0.615	0.652		1.272		-		-		-	0.000	2.539	N/A
Product Developme	nt (\$ in M	illions)		FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ARIMS	TBD	TBD : TBD	0.429	1.025		2.052		2.103		-		2.103	Continuing	Continuing	Continuinç
Army SHARP Data Management	TBD	Data Management : TBD	-	0.996		0.986		1.117		-		1.117	Continuing	Continuing	Continuinç
SFL-TAP	TBD	To Be Determined : To Be Determined	0.578	0.437		0.297		1.168		-		1.168	0.000	2.480	-
HRC Core IT	TBD	To Be Determined : To Be Determined	9.203	7.978		5.552		5.517		-		5.517	0.000	28.250	-
		Subtotal	10.210	10.436		8.887		9.905		-		9.905	Continuing	Continuing	N/A
Support (\$ in Millior	ıs)			FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Family Advocacy System of Records (FASOR)	TBD	TBD : TBD	3.166	1.409		1.415	Oct 2022	1.544	Oct 2023	-		1.544	Continuing	Continuing	Continuinç
		Subtotal	3.166	1.409		1.415		1.544		-		1.544	Continuing	Continuing	N/A
			Prior Years	FY 2	2022	FY	2023		2024 Ise		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	13.991	12.497		11.574		11.449		-		11.449	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2024 Arm	y				Date:	March 20	23			
Appropriation/Budget Activity 2040 / 5				ement (Number/N Information Techno	ology Dev FM7 I	Project (Number/Name) FM7 I Human Resouces Information Technology					
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract		

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 A	Army																			Da	ate:	Mar	ch 2	023	3			
Appropriation/Budget Activity 2040 / 5							R-1 Program Element (Number/Name)Project (PE 0605013A / Information Technology DevFM7 / HuelopmentTechnology									Hun												
Event Name					FY 2	2023 FY 2024 FY 2025											(20	27	Τ	F	Y 2	028						
Eventrane	1	2	3	4	1	2	3 4	1	2	3	3 4	1	2	3	4	1	2	3	4	1	2	3	4		1 2	2	3	4
HRC Core IT	HRC C	ore IT																										
SFL-TAP XXI Modernization	SFL-T	ар хх	(I Moder	nization	1																							
ARIMS	ARIM	5																										
Army SHARP Data Management																												
FASOR																												
	FASO	R Dev	elopmen	t Sched	iule																							
												1								1								

nibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Mare	ch 2023
propriation/Budget Activity 0 / 5		m Element (Number 3A I Information Tech	Project (Number/Nar FM7 I Human Resouc Technology		
	Schedule Det	ails			
		Sta	art	E	nd
Events		Quarter	Year	Quarter	Year
Events HRC Core IT		Quarter 4	Year 2020	Quarter 4	1
		Quarter 4 1			Year
HRC Core IT		Quarter 4 1 1	2020	4	Year 2027
HRC Core IT SFL-TAP XXI Modernization		Quarter 4 1 1 1 1 1	2020 2020	4 4	Year 2027 2027

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	vrmy							Date: Marc	ch 2023	
Appropriation/Budget Activity 2040 / 5		-		t (Number/ ation Techr	Number/Name) ormation Technology for Training							
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
FM8: Information Technology for Training Systems	-	60.670	36.893	5.993	-	5.993	1.562	3.275	3.306	3.451	0.000	115.150
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project funds information technology systems that support Army Training. The four systems under FM8 are described below. Of those, the Army Training Information System (ATIS) is an Army priority and the focus of the major investment in FM8. ATIS directly supports two of the four Army Unit Readiness Priorities - Training and Leader Development and serves as an enabler for Manning and Equipping.

1. Army Training Information System (ATIS). The Army currently lacks an enterprise level Common Operational Picture (COP) of the training environment. The ATIS is designated a Defense Business System (DBS) that will develop, integrate, test, deliver, operate, and maintain an enterprise capability for the Army training and education communities. Existing training information systems do not provide Commanders, leaders, Soldiers, and civilians a centralized COP of the training environment that enables persistent, consistent access to the Training and Education information and products necessary to support readiness to meet emerging threats. Annual costs to maintain current legacy systems is ~\$75 million. Without ATIS, Army organizations will continue to develop and maintain a multitude of training information systems that are not part of an enterprise, thus inhibiting efficient use of training resources, (people, time, money, material) that directly impacts the ability for units to meet readiness objectives. Ultimately, ATIS is aligned to support Army enterprise data object as an authoritative source of data for Training and Readiness information.

ATIS is currently operating under the Defense Business System (DBS) pathway under DoDI 5000.75. Going forward ATIS will continue to operate under DoDI 5000.75, as well as utilize aspects of the Software Acquisition pathway, DoDI 5000.87. This hybrid pathway is designed to provide rapid development and deployment of software running on commercial hardware, including modified hardware, and cloud computing platforms.

Once fully-fielded, ATIS will sunset the functionality in 28 primary and 70 supporting information training systems with a single, integrated, user-friendly and technologically current system that will support management of the following training functions for 1.8 million users:

- Training Development. Provides ability to develop and coordinate information, including training packages, training events, courses, and exercises.

- Training Management. Provides centralized ability to access and manage information, including individual and collective/unit training that supports mission tasks and individual training records.

- Enterprise Scheduling. Provides a single integrated set of applications to schedule training resources, including transportation, classrooms, ranges, supplies, and mandated legal/social individual and unit training.

- Content Management. Provides centralized access to training information anytime, anywhere, including educational and professional instruction.

- Resource Management. Provides ability to manage availability/sustainability of training enablers and resources.

NOTE: The next three systems are not part of the ATIS Development program.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023
	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	•	umber/Name) rmation Technology for Training

2. Defense Language Proficiency Test, version 5 (DLPT5) Content Analysis, Categorization & Modeling (CACM). The DLPT5 Content Analysis, Categorization, and Modeling (CACM) contract is in direct response to DLIFLC's DoD Instruction assigned responsibilities for DLPT item bank maintenance, psychometric analysis, and informed pool management, and closely support the DLPT Validity Framework. This project enhances the DLIFLCs ability to efficiently execute high quality DLPT development processes through the integration of benchmark automation capabilities. Accomplishments include: developed and delivered ordered similarity analysis capabilities; developed and delivered integrated audio quality analysis capabilities; developed and delivered integrated audio quality analysis capabilities; developed and delivered integrated Auto-ILR capabilities in 15 languages; developed and delivered integrated machine transcription capabilities in 6 languages; developed and delivered integrated machine transcription capabilities in 6 languages; developed and delivered integrated grade level lookup capabilities; developed and delivered annotator alignment analysis capabilities in 2 languages.

3. The Army Career Tracker is leader development tool that leverages Army's prior investments to integrate education, training, assignment, self-development and other systems by linking these valuable technologies and resources into a common user-friendly portal across 1.35 million users consisting of enlisted, officers, and civilians. Users can search multiple education and training resources, monitor career development, and receive advice from their leadership. ACT provides single-site, easy access, and offers a complete and personalized career picture not available until now. ACT allows users to manage career objectives and monitor progress towards career requirements and goals. ACT provides an integrated approach to supporting military and civilian personnel's personal and professional development which capitalizes on the mutual (personnel and Army) need for life-long learning. The unique inter-relationship between the user's personal growth and development, and the Army's need for Soldiers to be continuously developing, building and cultivating a culture of life-long learning is critical for the Soldier's and Army's success. Users manage their lifelong learning career objectives, monitor progress towards career development will modernize the Army Career Tracker (ACT) system to render web pages correctly base on the size of the screen. Responsive Web Design (RWD) is an approach to web design that renders web pages based on the size of the device's display screen (e.g., computer, tablet, and phone). This allows the site to load quickly and ensures the display appears as if it were made expressly for the device being used. RWD improves user experience by displaying messages, links, and controls in a logical manner regardless of the device. The actual presentation may not look the same across different devices; rather the rendering will depend on the Operating System (OS), screen size, screen resolution, and other factors. Implementing RWD on ACT would be a step forward toward allowing ACT to render better on

4. Enhancement of Army Training Models (ATM) will provide the resources to build and sustain readiness requirements in a standardized process for automated methodology development and resource allocation in support of the Army's training needs.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Army Training Information System (ATIS)	59.078	33.916	4.447
Description: Army Training Information System (ATIS) is a Defense Business System that will provide a common operational picture (COP) of the training environment in five integrated and interoperable capability areas: Training Development; Training Management; Training Enterprise Scheduling; Learning Content Management and Training Resource Management. These capabilities will enable Commanders, leaders, Soldiers, and civilians to better understand, visualize, describe, direct, lead, and			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army Date: March 2023										
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Dev elopment	-		lame) Technology fo	r Training					
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024					
assess training requirements so that they can more effectively plan, prepare, ex that enables Soldiers to train as they will fight, so they can effectively fight as the		TIS								
<i>FY 2023 Plans:</i> FY 2023 Plans: During FY23 ATIS will work toward migrating and sunsetting the legacy Army L the ATIS Objective Environment, and rebrand the product as ATIS Learn. Add the features and functionality required to sunset the Digital Training Manageme scheduled to be subsumed. Finally ATIS will Award and begin executing an Ot scheduling and resourcing solution that can be integrated into ATIS, providing to resourcing capabilities.	itionally, ATIS is will work toward completing ent System, which is the largest legacy system ther Transaction Agreement to produce a									
Management Services (using Bridging Contract) - Funds will be used to procure professional staff and software development tea office in oversight of the development of ATIS and the sunsetting of legacy syst Product Development (Bridge/OTA) - Bridge Contract: Funds will be used for development teams. The product team and ATIS development pipeline to deliver software infrastructure and capability Learning Management System (ALMS) and the standup of ATIS Learn in the A - OTA: Funds will be used to award Level of Effort 2 OTA, will focus on develo (TESC) and Training Resource Management Capability (TRMC) capabilities. Support Services - Cloud: Funds will continue to procure cloud services via the Cloud Account M Department of the Army Enterprise Cloud Management Agency. - Licenses: Funds will be used to develop Government Off the Shelf (GOTS) a necessary to support sunsetting the 28 legacy systems	tems ns will utilize the established ATIS environmer , beginning with the sunsetting of the legacy A ,TIS objective environment in 1Q FY24. ping the Training Enterprise Scheduling Capa Management Optimization (CAMO) record with	nt rmy pility the								
FY 2024 Plans: FY 2024 Plans: During 1QFY24 ATIS will successfully complete the migration and sunsetting o (ALMS) and the standup of ATIS Learn in the ATIS Objective Environment. Ad the features and functionality required to sunset the Digital Training Management	Iditionally, ATIS is estimated to complete 30%	of								

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army	Date: March 2023					
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	Project (I FM8 / Info Systems	r Training			
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2022	FY 2023	FY 2024	
an additional two legacy systems. Finally ATIS will continue efforts to produce integrated into ATIS, providing the majority of the enterprise scheduling and re		be				
Fund distribution is below:						
 Management Services (using bridging contract) Funds will be used to continue funding professional staff and software development office in oversight of the development of ATIS and the sunsetting Product Development (bridge) Funds will be used for development teams. The product teams will utilize the development pipeline to deliver software infrastructure and capability, beginnin Management System (ALMS) and the standup of ATIS Learn in the ATIS obje Support Services (cloud) Funds will continue to procure cloud services via the Cloud Account Manage Department of the Army Enterprise Cloud Management Agency. 	ing					
FY 2023 to FY 2024 Increase/Decrease Statement: Decrease in FY24 funding reflects reduced development activities in FY24 and	d accomplishment of development activities in I	-Y23.				
Title: DLPT5 Content Analysis, Categorization & Modeling			1.407	1.517	1.546	
Description: Development of DLPT5 Content Analysis, Categorization and Methe DLIFLC MIT LL TIDWA Domino system. These capabilities are in direct re for DLPT item bank maintenance, psychometric analysis and informed pool methers.	sponse to DLIFLC's DoDI assigned responsibil	ities				
<i>FY 2023 Plans:</i> - initiate development of Topic modeling capabilities - initiate development of predictive modeling capabilities						
<i>FY 2024 Plans:</i> initiate development of Topic modeling capabilities - initiate development of predictive modeling capabilities						
FY 2023 to FY 2024 Increase/Decrease Statement:						

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army Date: March										
Appropriation/Budget Activity 2040 / 5	R-1 Program Element PE 0605013A <i>I Informa</i> <i>elopment</i>		Project (Number/Name) FM8 / Information Technology for Training Systems							
B. Accomplishments/Planned Programs (\$ in Millions)				FY 2022	FY 2023	FY 2024				
The increase reflects the planned lifecycle of this effort.										
<i>Title:</i> Army Career Tracker				0.185	0.113	-				
Description: The Army Career Tracker is leader development tool that leverag education, training, assignment, self-development and other systems by linking common user-friendly portal across 1.35 million users consisting of enlisted, off Development Plan (IDP) feature in the Army Career Tracking system.	these valuable technolo	ogies and resources in								
<i>FY 2023 Plans:</i> Continued modernization and enhancements of the Army Training Models.										
FY 2023 to FY 2024 Increase/Decrease Statement: The decrease reflects the planned lifecycle of this effort.										
Title: SBIR/STTR				-	1.347	-				
Description: Funding transferred in accordance with Title 15 USC §638										
FY 2023 Plans: Funding transferred in accordance with Title 15 USC §638										
FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC §638										
	Accomplishments/Pla	nned Programs Sub	ototals	60.670	36.893	5.993				
C. Other Program Funding Summary (\$ in Millions) N/A Remarks C. Other Program Funding Summary (\$ in Thousands) is listed below as a me	mo since ATIS is a child	from the parent line.	OPA2/BI	03000.						
		·								
Army BE4162 - OPA2/BD3000/BE4162/MACOM AUTOMATION SYSTEMS		FY2024 FY2025 1,908 0	FY2026 0							
Legacy systems that will be subsumed by the Army Training Information System	m (ATIS) are listed belo	w. Annual cost to ma	intain the	se systems	s is ~\$75M.					
PE 0605013A: Information Technology Development	CLASSIFIED									

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	Project (Number/Name) FM8 / Information Technology for Training Systems
C. Other Program Funding Summary (\$ in Millions)		
Acronym System Name		
1. ACT - Army Career Tracker (IDP and PDM only).		
2. AIRS - Army IMCOM Reservation System.		
3. ARM - Army Range Mapper - JMTC/TSAE (EUR).		
4. ARTIMS - Army Training Information Management (NIPRnet version Only	/).	
5. ATHD - Army Training Help Desk.		
6. ATIA - Army Training Information Architecture.		
7. ATLAS - Army Training and Learning Assessment System.		
8. ATMS - Army Training Management System. 9. CAMP - Career Acquisition Management Portal.		
10. DLRS-T - Distributed Learning Reporting and Scheduling Tool.		
11. DLS - Distributed Learning System (Army Learning Management Syster	m)	
12. ECDC - Enterprise Content Development Capability.		
13. ESC - Enterprise Scheduling Capability.		
14. GTIMS - Graduate Training Integration Management System (Aviation F	Resource Training System - ARTS)	
15. IDMS - Inventory and Distribution Management System		
16. LLC - Lifelong Learning Center		
17. RFMSS - Range Facility Management Support System		
18. SCINI - IMCOM Senior Commander Installation Needs and Issues		
19. SMS - CGSC -Student Management System- Command and General S		
20. SRP GIS TK - Sustainable Range Program (SRP) Geographic Informati	on System (GIS) ToolKit	
21. SRPP - SRPWeb Portal		
22. SWT - System Training Plan (STRAP) Writing Tool	ement Custom	
 TD2QA - Training and Doctrine Development Quality Assurance Manag TDC - Training Development Capability 	ement System	
25. TMSS-E - Training Management Scheduling System - Enterprise		
26. TSIMS - Training Support Information Management System *identified a	as a system to feed HODA Training COP	
27. TS-MATS - Training Support Materiel Army-wide Tracking System		
28. WEB TED - Web Based Total Employee Development System		

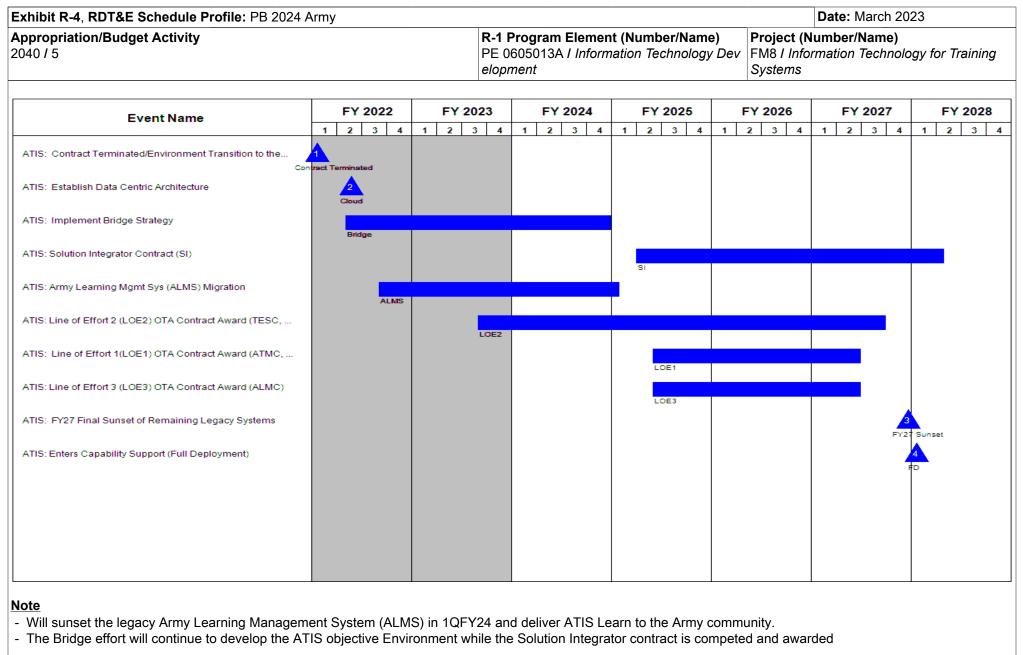
Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 5	PE 0605013A I Information Technology Dev	FM8 I Infor	mation Technology for Training
	elopment	Systems	

D. Acquisition Strategy

Army Senior leadership decided to terminate the ATIS's prototype development under an Other Transactions Authority (OTA) Agreement in 1QFY22. To capitalize on initial efforts under that Agreement, the Program Management Office (PMO) immediately leveraged the support contracts currently in place to mitigate schedule risks and still deliver useful capabilities to the Force. In 2QFY22 ATIS established an AWS GovCloud, cArmy environment to continue prototype development. In 3QFY22 the PMO awarded a contract modification to update and migrate the Army Learning Management System (ALMS) to the ATIS Objective cArmy environment NLT 1QFY24. PdM ATIS will employ a modular contracting approach to award a mix of traditional FAR-based contracts and OTA to develop the objective system. This strategy allows for the competitive selection of multiple vendors with innovative technologies to develop the fully integrated system. This approach will help to reduce the risks associated with vendor lock as well. The first OTA for Enterprise Scheduling and Resource Management capabilities will be awarded 3QFY23. ATIS will continue to utilize the principles of Agile development to deliver capabilities to the Army. Sunset for the 28 legacy systems that ATIS will replace is expected in 4QFY27.

Appropriation/Budge 2040 / 5	t Activity	1				R-1 Program Element (Number/Name)Project (Number/Name)PE 0605013A / Information Technology DevFM8 / Information Technology for Tra Systems							raining				
Management Service	es (\$ in M	illions)		FY 2	FY 2022 FY 2023		023	FY 2024 Base		FY 2 OC		FY 2024 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
ATIS Interface Agreements (Army Software Factory)	MIPR	Various : Various	-	1.400		-		-		-		-	0.000	1.400	-		
ATIS Program Management Office (includes LMI Bridge Effort)	C/FFP	ATIS Program Management Office : Newport News, VA	0.699	12.857		10.178		2.233		-		2.233	Continuing	Continuing) Continuing		
ATIS MITRE Support	MIPR	W4GV USA HQ COMM ELECT CMD : Aberdeen Proving Grounds, MD	-	2.677		1.536		-		-		-	Continuing	Continuing) Continuing		
SBIR/STTR Transfer	TBD	TBD : TBD	-	-		1.347		-		-		-	0.000	1.347	-		
		Subtotal	0.699	16.934		13.061		2.233		-		2.233	Continuing	Continuing	N/A		
Product Developmen	nt (\$ in M	n Millions)			FY 2022		023		FY 2024 Base				FY 2024 FY 2024 OCO Total		F T		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
ATIS Product Development Contract (Peraton FY22, LMI FY23/24)	C/FPIF	Various : Newport News, VA	49.297	36.281		7.869		1.107		-		1.107	0.000	94.554	-		
ATIS OTA Contract Level of Effort 2 (New)	C/TBD	To Be Determined : To Be Determined	-	-		10.875		-		-		-	Continuing	Continuing	Continuing		
DLPT5 Content Analysis, Categorization & Modeling	MIPR	Army Test and Evaluation Center : Aberdeen Proving Grounds, Maryland	1.151	1.407		1.517		1.546		-		1.546	Continuing	Continuing) Continuing		
Army Career Tracker	TBD	TBD : TBD	0.195	0.185		0.113		-		-		-	Continuing	Continuing	Continuing		
•		Subtotal	50.643	37.873		20.374		2.653		-		2 653	Continuing	Continuino	N/A		

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	024 Army	/							7	Date:	March 20)23	
Appropriation/Budge 2040 / 5	et Activity	/				R-1 Program Element (Number/Name)Project (Number/Name)PE 0605013A / Information Technology Dev elopmentFM8 / Information Technology for T Systems						ogy for Tr	aining		
Support (\$ in Million	s)			FY 2022		FY 2023		FY 2024 Base		FY 2 OC					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATIS Cloud Services: CAMO (Cloud Account Management Optimization Agreement (CAMO)	MIPR	AWS : PEO EIS, FT. Belvoir, VA 22060	-	4.355		1.475		1.107		-		1.107	Continuing	Continuing	Continuin
ATIS Software	Various	TBD : TBD	-	1.418		1.983		-		-		-	Continuing	Continuing	Continuin
		Subtotal	-	5.773		3.458		1.107		-		1.107	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)			FY 2022		FY 2023		FY 2024 F Base			FY 2024 FY 2024 OCO Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATIS - System Test and Evaluation	MIPR	Army Test and Evaluaction Center : Aberdeen Proving Grounds, Maryland	0.115	0.090		-		-		-		-	Continuing	Continuing	Continuin
	I	Subtotal	0.115	0.090		-		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2	2022	FY 2	023	FY 2 Ba	-	FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	51.457	60.670		36.893		5.993		-		5 003	Continuing	Continuing	N/A



xhibit R-4, RDT&E Schedule Profile: PB 2024 Army		Date: March 2023
oppropriation/Budget Activity 040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) FM8 / Information Technology for Training Systems
Final sunset of remaining legacy systems is 1QFY28 and will	signal full deployment.	
0605013A: Information Technology Development	UNCLASSIFIED	Volume 3c - 1

hibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Mar	ch 2023	
propriation/Budget Activity 40 / 5	PE 0605013A elopment	Element (Number I Information Tech	Project (Number/Na FM8 / Information Teo Systems	Number/Name) ormation Technology for Training		
S	Schedule Detail	-	art		End	
Events		Quarter	Year	Quarter	Year	
ATIS: Contract Award		3	2020	3	2020	
ATIS: Contract Terminated/Environment Transition to the Gov't		1	2022	1	2022	
ATIS: Establish Data Centric Architecture		2	2022	2	2022	
ATIS: Implement Bridge Strategy		2	2022	4	2024	
ATIS: Solution Integrator Contract (SI)		2	2025	2	2028	
ATIS: Army Learning Mgmt Sys (ALMS) Migration		3	2022	1	2025	
ATIS: Line of Effort 2 (LOE2) OTA Contract Award (TESC, TRMC)		3	2023	3	2027	
ATIS: Line of Effort 1(LOE1) OTA Contract Award (ATMC, ATDC)		2	2025	2	2027	
ATIS: Line of Effort 3 (LOE3) OTA Contract Award (ALMC)		2	2025	2	2027	
ATIS: FY27 Final Sunset of Remaining Legacy Systems		4	2027	4	2027	
ATIS: Enters Capability Support (Full Deployment)		1	2028	1	2028	

<u>Note</u>

ATIS - The ATIS program will be officially baselined at the Limited Deployment - Acquisition Authority to Proceed (LD ATP) at the end of Release 1. The objective system is reached upon reaching full deployment in FY24.

2040 / 5 PE 0605013A / Information Technology Dev elopment											Project (Number/Name) FM9 I Information Technology for Criminal Investigations				
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			
FM9: Information Technology for Criminal Investigations	-	1.181	1.273	2.697	-	2.697	1.298	1.313	1.328	1.342	0.000	10.432			
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-					
A. Mission Description and Bud The project Criminal Investigation the Army's law enforcement (LE) consistent with current LE commu B. Accomplishments/Planned P Title: Criminal Investigative Mana Description: Criminal Investigative (IT) systems that supports the US Center (USACRC), the Army Milita Through CIMS, the USACID and t that houses both classified and un information technology assets and primary component of CIMS is a c System (ALERTS) providing Army and criminal intelligence functions Operation Police Suite (COPS) wa rationalized under ALERTS: two of unclassified and classified Detained Deserter Verification Information S transform ALERTS along with mul agency into an elite Federal LE ag LE agencies. Strategically partner program element 0606013A will b	Managem mission and unity practic rograms (§ gement System ACID, the C ary Police S the OPMG of assified L dother exter of Le stakeh , as well as as previous of these app ee Reportin System (DV tiple CID m gency that is ing requires	ent System d to transfor es. <u>in Millions</u> stem (CIMS nent System Office of the School (USA developed a law Enforce rnal data so sive enterpri olders the e a broader r ly comprise lications ha g System ([IS) is being ission syste s ahead of t s the creation	(CIMS) is to m CID LE a (CIMS). C Provost Ma (MPS), and an integrate ment Sensi burces, and se system k inhanced ca range of ser d of five sep ve been co DRS) modul modernize ems through he threat, c on of multipl	IMS is a co arshal Gene other DoD d and unifie tive (LES) of providing a cnown as the apability to r nior executive parate appli nsolidated i les have be d and ratior n software n ontinuously	through co ellection of n eral (OPMG Law Enforce ed, compreh data, levera full range co rapidly and ve reporting cations: two into one and en moderni nalized under nodernization evolving an	ntinuous inr nission esse), the U.S. A ement (LE) lensive ente ging existing of law enforce w Enforceme efficiently m requirement of these ap d modernize zed and rat er CIMS. RE on from an A nd strategic	ential inform army Crime entities and provide and future comment func- comment func- c	ation techn Records I stakeholde ram / syster Army LE stions. The ng and Trac riety of LE nsolidated nave been MS: the fina nder CIMS. s are requir c investigati ng with Fec	I The ed to ve LE leral	ove operat					
FY 2023 Plans: ALERTS, a vital component of CIM database to ensure it maintains its		•	•	•		e software a	pplication a	and back-en	d						

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army

Date: March 2023

Exhibit R-2A, RDT&E Project Just	ification: PB	2024 Army							Date: Ma	arch 2023		
Appropriation/Budget Activity 2040 / 5	PE 0605013A / Information Technology Dev FM							/ FM9///	oject (Number/Name) 9 I Information Technology for Criminal estigations			
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2023	FY 2024	
and ability to support the LE stakeholder community. The rewrite will be started during FY 2023 and continue through the following FY.												
FY 2024 Plans: ALERTS, the primary component of in FY 2023 with gathering stakehold to store case information. Moderniz New Law Enforcement (LE) case da the CID Director's COMPSTAT prog developed, configured, and implem	ler requiremer ation of ALEF ata procedures gram and data	nts and the c RTS will cont s to support	levelopment inue through senior execu	of a more en FY 2024 wi utive reportin	fficient and e ith a new CII ng requireme	effective data MS developn ints will be de	base structu nent contract eveloped thro	re				
FY 2023 to FY 2024 Increase/Dec Funding increase will be used to de mapping module for Army Law Enfo	velop a more	efficient and			ture to store	case inform	ation and de	velop				
Title: SBIR/STTR Transfer									-	0.046	-	
Description: Funding transferred ir	accordance v	with Title 15	USC §638									
FY 2023 Plans: Funding transferred in accordance	with Title 15 U	SC §638										
FY 2023 to FY 2024 Increase/Dec Funding transferred in accordance												
				Accon	nplishment	s/Planned P	rograms Su	btotals	1.181	1.273	2.697	
C. Other Program Funding Summ	ary (\$ in Milli	<u>ons)</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>					<u>Cost To</u>		
Line Item • OMA - Firm Fix Price: Labor IT Support Services	<u>FY 2022</u> 1.181	<u>FY 2023</u> 2.915	<u>Base</u> 3.170	000	<u>Total</u> 3.170	<u>FY 2025</u> -	<u>FY 2026</u> -	<u>FY 2027</u> -	<u>FY 2028</u> -	<u>Complete</u> 0.000	<u>Total Cost</u> 7.266	
Remarks OMA dollars are used for the opera 24 hours, 365 days per year. It inclu creating/deleting user accounts, mo	udes server pa	atching with	the latest se	curity patche	es, backing ι	ip the data, p	providing cus	tomer ser	vice through	a CIMS Help		

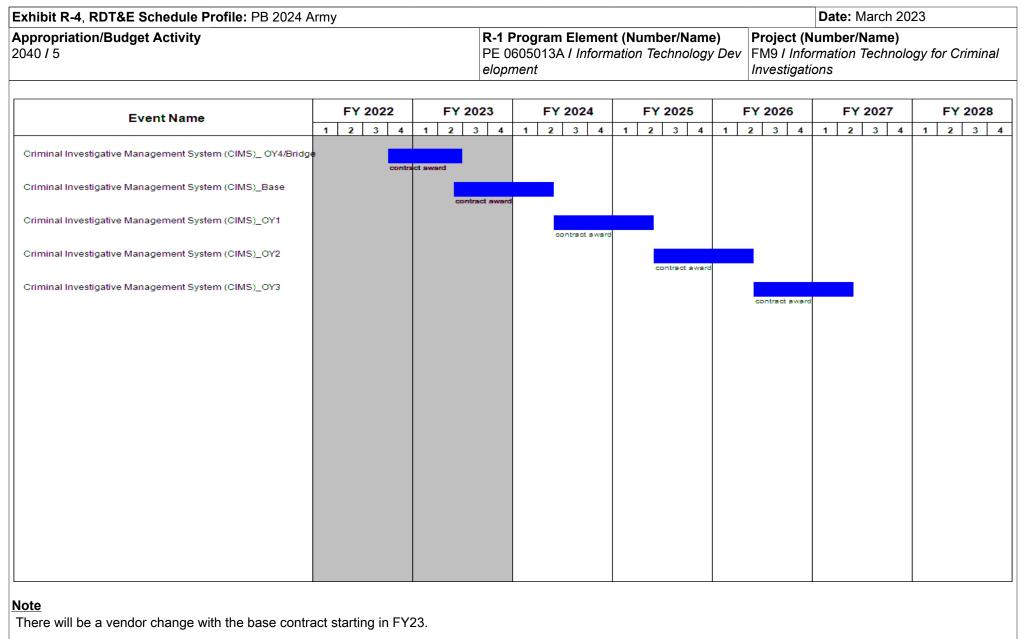
Exhibit R-2A, RDT&E Project Justification: PB 2024 Army	Date: March 2023				
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)			
2040 / 5	PE 0605013A I Information Technology Dev	FM9 I Information Technology for Criminal			
	elopment	Investigations			

D. Acquisition Strategy

USACID utilized Agile Development which is a process where development is broken up into several stages. It involves constant collaboration with the stakeholders for continuous improvement and changes in each stage. Development is delivered in Releases to the customer for testing and acceptance ensuring that the project stays on track. The CIMS contract ended 30 June 2022 and a bridge contract was put in place with an end date of 1 March 2023. A new contract will be negotiated to continue the RDT&E development of the CIMS applications.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2024 Army	,								Date:	March 20	23	
Appropriation/Budg 2040 / 5	et Activity	/					5013A / II		lumber/Na on Technol		-		r/ Name) n Technolo	ogy for C	riminal
Management Services (\$ in Millions)				FY	2022	FY 2023		FY 2024 2023 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.046		-		-		-	0.000	0.046	-
		Subtotal	-	-		0.046		-		-		-	0.000	0.046	N//
Product Developme	nt (\$ in M	illions)		FY	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Criminal Investigative Management System (CIMS)	C/CPFF	ACC-New Jersey : New Jersey	2.055	1.181	Jul 2022	1.227	Mar 2023	2.697	Feb 2024	-		2.697	0.000	7.160	-
		Subtotal	2.055	1.181		1.227		2.697		-		2.697	0.000	7.160	N//
Remarks CIMS will continue to esta	blish DoD int	ternal and external cong	ressional ma	andated lav	w enforceme	ent data trar	nsfer initiativ	es.				-	1		
			Prior Years	FY2	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
			2.055			1.273		2.697	1 1		1	2.697	0.000	7.206	N//

The FY24 funds will enable the modernization of ALERTS, which is the primary component of CIMS. Modernization will continue through FY 2024 with a new CIMS development contract.



hibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Marc	h 2023
propriation/Budget Activity 40 / 5		Element (Numbe I Information Tech	Project (Number/Nan FM9 / Information Tech Investigations		
	Schedule Detail	S			
		St	art	E	nd
Events		Quarter	Year	Quarter	Year
Criminal Investigative Management System (CIMS)_ OY4/Bridge		4	2022	2	2023
Criminal Investigative Management System (CIMS)_Base		2	2023	2	2024
Criminal Investigative Management System (CIMS)_OY1		2	2024	2	2025
Criminal Investigative Management System (CIMS)_OY1 Criminal Investigative Management System (CIMS)_OY2		2	2024 2025	2	2025 2026

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army											Date: March 2023			
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name)Project (Number/Name)PE 0605013A I Information Technology DevT04 I USMEPCOM TRANSFORMTICelopmentMODERNIZATION						TION - IT			
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		
T04: USMEPCOM TRANSFORMTION - IT MODERNIZATION	-	8.753	2.221	2.239	-	2.239	2.240	2.242	2.617	2.646	0.000	22.958		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

A. Mission Description and Budget Item Justification

USMIRS 1.1 Minimum Viable Product (MVP): Supports core functionality comprised of multiple sub applications and non-core applications modernization and testing and order writing applications. The US Military Entrance Processing Command Integrated Resource System (USMIRS) provides automation and communications capabilities to support the peacetime, mobilization and wartime military manpower accession mission for the Armed Services. USMEPCOM conducts its work through 65 Military Entrance Processing Station (MEPS) across the country and 189 Military Entrance Test Sites (METS). USMIRS provides automated support for conducting aptitude tests and medical examinations and administratively processing, enlisting and shipping applicants for the Armed Forces, Reserves, and Coast Guard. This includes support for automated versions of the Armed Services Vocational Aptitude Battery (ASVAB) tests. USMIRS initiates Social Security Administration (SSA) checks for identity verification; interfaces with US Citizenship & Immigration Services (USCIS) to verify citizenship status for military service applicants to screen out individuals that may be security threats; and interfaces with the Federal Bureau of Investigation (FBI) for background screening, using digital fingerprints to identify/ eliminate individuals with criminal records from entering military service.

USMEPCOM reports operationally to the Office of the Under Secretary for Personnel and Readiness and has an executive agency (EA) agreement with the Army. USMEPCOM serves all six uniformed services, but only receives funding from the Army to perform its mission.

USMIRS supports recruiting capabilities through electronic interfaces and data sharing, using standard Department of Defense (DoD) data elements with Recruiting Service systems. In the event a military draft is required, USMIRS supports mobilization through electronic links with the Selective Service System (SSS) as well as automated support for conducting aptitude tests and medical examinations and administratively processing, inducting and shipping SSS registrants.

Customers/beneficiaries of this investment: the Accessions Community of Interest (ACOI), including components of the Army, Navy, Air Force, Marines, Coast Guard, Space Force, USMEPCOM, and Office of the Under Secretary of Defense (Personnel & Readiness).

Requested funding underpins system sustainability and scalability and improves cybersecurity to include protection of Personally Identifiable Information (PII). Funding covers costs to redesign/develop existing MIRS capabilities to operate efficiently in a cloud environment and to integrate with MHS-Genesis. This will allow for the closure of 65 Army data centers, in support of the Army Data Center Consolidation Plan (Army Directive 2016-38) and movement towards the Force of the Future mandate of all digital processing.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: USMIRS Modernization/Digitization	8.753	2.140	2.239

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date	March 2023			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024		
Description: As of March FY21, the USMIRS 1.1 Minimum Viable Product (My the system. USMIRS 1.1 is a system that is comprised of multiple sub application be modernized. FY22 RDTE supports the further modernization of non-core approach our testing and order writing applications.	ions, and those non-core applications will need	to				
FY 2023 Plans: FY23 BASE funding supports the continual modernization of USMIRS 1.1 core ensure that incremental modernization efforts can be completed in order to keep		nds				
FY 2024 Plans: FY24 BASE funding supports the continual modernization of USMIRS 1.1 core ensure that incremental modernization efforts can be completed in order to keep		nds				
FY 2023 to FY 2024 Increase/Decrease Statement: Funding increase reflects planned lifecycle of this effort.						
Title: FY23 SBIR/STTR Transfer			0.081	-		
Description: Funding transferred in accordance with Title 15 USC §638						
FY 2023 Plans: Funding transferred in accordance with Title 15 USC §638						
FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC §638						
	Accomplishments/Planned Programs Sub	otals 8.7	3 2.221	2.239		
 <u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u> <u>D. Acquisition Strategy</u> The overall effort of the USMEPCOM IT transformation is to modernize and fully (MIRS). The modernization of the system will minimize vulnerabilities and fully services. 						

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army	Date: March 2023		
Appropriation/Budget Activity 2040 / 5	PE 0605013A I Information Technology Dev	T04 / USM	
	,		1EPC

The modernization of the USMIRS system is being accomplished using the agile method of software development in short time-boxed "sprints". Program management functions were being performed by the Defense Digital Service (DDS). DDS managed an prototype development contract with a local consulting firm called Tandem (previously known as Devmynd. Based in Chicago IL). The DDS/Tandem effort ended in December of CY2019 and produced a prototype. An in-house program management element of USMEPCOM will manage a follow-on contract to turn the prototype USMIRS 1.1 into a deployable system in FY21.

The efforts in FY21 and beyond will be to develop the non-core applications of USMIRS 1.1 (plug in items to the main system that communicate with other systems across all five uniformed services to include Army Accession Information Environment (AIE). The contracting for this is being done through GSA Chicago as the owning contract agency. This will most likely be awarded in October of FY2021 with work beginning in October.

Milestones:

- 1 Core USMIRS 1.1 prototype delivered in December of Calendar 2019.
- 2 Award contract to develop core USMIRS 1.1 prototype into a Minimum Viable Product that can be deployed to the field in 2Q FY2021.
- 3 Award contract to develop the USMIRS 1.1 non-core applications (plug ins) in 1Q FY2021 with work to begin 2Q FY2021.
- 4 FY22 and beyond will be to primarily establish the link between various systems (AIE, MHS Genesis Etc).

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	024 Army	/								Date:	March 20)23	
2040 / 5 P							R-1 Program Element (Number/Name)Project (Number/Name)PE 0605013A / Information Technology DevT04 / USMEPCOM TRANSFORMelopmentMODERNIZATION						SFORMT	ION - IT	
Management Service	es (\$ in M	lillions)		FY	2022	FY 2	2023	FY 2 Ba		FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.081		-		-		-	0.000	0.081	-
		Subtotal	-	-		0.081		-		-		-	0.000	0.081	N/A
Product Developme	nt (\$ in M	illions)		FY2	2022	FY 2	2023	FY 2 Ba		FY 2 OC		FY 2024 Total			1
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Develop NON-CORE USMIRS 1.1 Applications	C/FP	ITILITY LLC UNDER GSA GWAC : Chantilly, VA 20151	8.997	8.753	Dec 2021	-		-		-		-	Continuing	Continuing	Continuin
USMIRS 1.1 Incremental Updates and Improvements	C/FP	TBD : TBD	-	-		2.140		2.239		-		2.239	Continuing	Continuing	Continuin
		Subtotal	8.997	8.753		2.140		2.239		-		2.239	Continuing	Continuing	N/A
			Prior Years	FY	2022	FY 2	2023	FY 2 Ba		FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	8.997	8.753		2.221		2.239		-		2.239	Continuing	Continuing	N/A

Remarks

xhibit R-4, RDT&E Schedule Profile: PB 2024 Army ppropriation/Budget Activity R-1 Program Element (Number/Name) 040 / 5 PE 0605013A / Information Technology De							
	elopi	nent		MODERNIZ	ZATION		
FY 2022	FY 2023	FY 2024			FY 2027	FY 2028	
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	
	FY 2022 1 2 3 4	elopr FY 2022 FY 2023	elopment FY 2022 FY 2023 FY 2024	elopment FY 2022 FY 2023 FY 2024 FY 2025	elopment MODERNIZ FY 2022 FY 2023 FY 2024 FY 2025 FY 2026	elopment MODERNIZATION FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027	

hibit R-4A, RDT&E Schedule Details: PB 2024 Army				D	ate: March	ו 2023
propriation/Budget Activity 40 / 5	R-1 Program Ele PE 0605013A / In elopment	•	,	Project (Nun T04 / USMER MODERNIZA	PCOM TRA	e) Ansformtion - I
	Schedule Details					
		St	art		En	d
Events		Quarter	Year	Qua	arter	Year
Core USMIRS 1.1 Prototype is Delivered		1	2020		1	2020
Award Contract and Develop Prototype into MVP		1	2020		1	2021
Award Contract to Develop USMIRS 1.1 Non-Core Applications		1	2021		1	2021
Receive Finished MVP		1	2021		1	2021
Rollout Production MVP to the Field		1	2021		2	2021
Core USMIRS 1.1 FOC		2	2021		2	2021
Develop Non-Core USMIRS 1.1 Applications		1	2021		4	2030

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army Date:											Date: March 2023		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name)Project (Number/Name)PE 0605013A I Information Technology Dev elopmentT05 I Army Business System Mod Initiatives					ernization			
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	
T05: Army Business System Modernization Initiatives	-	19.855	24.875	65.143	-	65.143	24.574	18.328	18.007	17.591	0.000	188.373	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

A. Mission Description and Budget Item Justification

Global Force Information Management (GFIM): GFIM is an automated, integrated, and interoperable digital environment that enables the Army's Deploy to Redeploy/ Retrograde (D2RR) end-to-end business processes in support of Dynamic Force Employment (DFE). The GFIM system will provide the core Global Force Management-Data Initiative (GFM-DI) compliant data necessary for Enterprise Resource Planning (ERP) systems, Business Mission Area (BMA) systems, and Warfighting Mission Area (WMA) systems to execute business processes efficiently and effectively in support of Army warfighting operations and Title 10 responsibilities. Today, over 85% of these core Army Business Processes are accomplished manually or with tools that are end-of-life, do not meet current Cybersecurity/Technology requirements, and are hosted on disparate technology platforms that are unable to be integrated. GFIM will provide an integrated planning, programming, and production capability to dynamically develop, design, and document an Army at rest and an Army in motion. GFIM will evolve both long-term and immediate bridging solutions that integrate and automate Army operational business processes. The result will be an interoperable, collaborative environment to enable the seamless creation and exchange of authoritative data across the operational community of practice to provide rapid, accurate, and auditable outcomes that will support risk-informed senior leader decisions.

The Student Information Repository (SIR) Application will replace several independent applications and business processes used to track student data including, but not limited to, personal information, grades, attendance, official records, transcripts, teaching teams, student assignments, and surveys. It is a customized information system that is comprised of separate modules that are tied in together as one system.

Army Business System Modernization Initiatives (subline). The Program Planning Budget (PPB) - Business Operating System (BOS) will standardize and better integrate the transactional automated information systems used in the HQDA level programming and budgeting processes. These systems are core to the PPBE business processes of the HQ for gathering programmatic requirements, balancing resources and delivering the Army's program budget to OSD. This project is streamlining programming and budgeting processes and significantly improving strategic analysis capabilities. The project is architecting, reengineering, streamlining and consolidating HQDA systems, feeder data base systems, and streamlining the associated processes. Initiatives also support HQDA systems such as the Integrated Resource Management Information System (IRMIS) and Structure And Manpower Allocation System (SAMAS). These improvements will improve capability, eliminate redundancies and reduce overall cost of operations. The PPB BOS project is complementary to the Army's General Fund Enterprise Business System (GFEBS) program. It includes a new effort in FY 2014, the Army Contract Writing System, a replacement for the DoD Standard Procurement System (SPS). This Project undertakes necessary efforts to integrate, implement, and build the next generation of Enterprise Business Systems capabilities. This effort is required to develop a converged, modernized Enterprise Resource Planning system that streamlines and integrates the Army's core business functions.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army	Date: March 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	Project (Number/Name) T05 <i>I Army Business System Modernization</i> <i>Initiatives</i>
Additive Manufacturing (AM) is a SEC Army priority. AM will fully integrate A common collaboration portal to enable sharing of AM 3D print data across the Capability will communicate and track user requests for AM 3D print data, and allow users to search for relevant 3D print tactical units.	e Army and with other DoD entities to address A	Army readiness driver requirements.
The Enterprise Sustainment Management System (ESMS) Web Application is umbrella of a single SMS application. Performing long-range work requirement courses of action and the related effects and tradeoffs of each decision. In a application provides increased control of user permission definition, teaming, improved user experience, leveraging state of the art web development techn management stakeholders - from civil engineers, technicians and managers Because assets are so vast and diverse, a "knowledge-based" philosophy dr	ents projections across all SMS domains allows ddition to the incorporation of all SMS domains and how permissions me applied; updated bus niques for more efficient use from beginning to e to headquarters - decide when, where and how	for a comprehensive analysis of various in a single application. The ESMS iness intelligence reporting capabilities; and end. ESMS helps all real property asset
Army Energy and Water Reporting System (AEWRS) is used to collect rollup Army's official database of record for all energy and water usage data, and energy progress in meeting statutory and mandated performance metrics. Data is par other services. AEWRS incorporated as a module the Solid Waste Annual Re waste management and recycling data at the Installation, Subordinate Comm disposal and recycling transactions, recycling revenues and recycling program command levels to fulfill reporting requirements and to track compliance with	nergy program management information. It prov assed other systems and to DOD to be joined by eporting for the Web (SWARWeb) which is the <i>i</i> nand, Major Command, Region and Army levels m management. Solid waste data collected thro	vides the basis for documenting Army y similar energy and water data from the Army's official database of record for solid s. Data is collected for disposal sites,
IEE EBS BUILDER and PAVER DoD requires a standardized, auditable, pro- DoD uses the Sustainment Management System (SMS) to conduct real prop conditions. SMS provides a consistent baseline for condition assessment of a	erty condition assessments, identify work requir	
This effort develops interfaces with Enterprise Business Systems-Convergen Team (EBS-MFCT) for Installations, Energy, and the Environment (IEE) dom		ess System Multi-Functional Capabilities
This effort develops and integrates modules for buildings (BUILDER) and pay	vement (PAVER) to modernize and consolidate	these modules so that installations can

The Enterprise Architecture Business Systems Consolidation effort provides direct execution support for the following Major Objectives of ACP - Army Campaign Plan Strategy Map. The objective is a reduced number of systems and reduced IT costs. Current systems include Headquarters Installation Information System (HQIIS),

manage all assets in a single enterprise system called Enterprise SMS (ESMS).

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army	Date: March 2023		
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 5	PE 0605013A / Information Technology Dev	T05 I Army	Business System Modernization
	elopment	Initiatives	

Installation Decision Support (IDS), Real Property Planning and Analysis System (RPLANS), Army Stationing and Installation Plan, Installation Geospatial Information & Services (IGI&S), and Installations Status Report (ISR).

The Vantage Program [previously Army Leader Dashboard (ALD)] is a data integration and visualization platform that enables the Army to "see itself" by providing Senior Leaders, Soldiers, Staff, and analytic communities with a common, integrated data platform to visualize and analyze the current and predicted future state(s) of the Army. Vantage spans all data domains, powers a set of configurable views, and provides tools for making data-driven decisions at every level of the Army.

The Army Vantage Program is a data integration and visualization platform that enables the Army to "see itself" by providing Senior Leaders, Soldiers, Staff, and analytic communities with a common, integrated data platform to visualize and analyze the current and predicted future state(s) of the Army. Spans all data domains, powers a set of configurable views, and provides tools for making data-driven decisions at every level of the Army. VANTAGE supports up to five concurrent lines of effort (LOEs) - investments in new use cases, workflows, or capabilities. LOEs focus on platform configuration, data integration, and user engagement for select critical workflows. The features and advantages of the platform allow the Army to (1) see itself clearly through its data, (2) meet its strategic modernization objectives, and (3) rapidly realize ROI.

Enterprise Business Systems-Convergence (EBS-C)- In 2019, SAP announced that the current application, Enterprise Central Component (ECC), would not be maintained after 2027 and customers will be required to upgrade to their new version SAP S/4 HANA. In response to this notification, the Army conducted studies in 2019/2020 by the Business Enterprise IT Leaders Group chaired by the Office of Business Transformation. Based on the results of these studies and direction from the Under Secretary of the Army, EBS-C is executing a strategic approach to modernize the Army business system landscape; align modern combat and combat support system capabilities with existing modernization efforts to enable Army force dominance during multi-domain large-scale combat operations in contested logistics environments; and improve overall Army financial operations resulting in improved financial management and successful audit outcomes. The Army is working EBS-C requirements to improve process agility and cross process integration; provide consistent user experiences with an intuitive user interface; and improve data integrity and security. At the enterprise level, EBS-C seeks to integrate financial and logistics processes and create opportunities to decrease overall DBS redundancies and duplications existing in the Army portfolio. In order to achieve the EBS-C mission, the RDT&E in FY24 will set the conditions for the innovation required to implement a de-customized ERP solution integrated with an agility layer providing an intuitive user interface with minimal customization reducing long term maintenance costs. The in-scope Defense Business Systems (DBS) for this effort include General Funds Enterprise Business Systems (GFEBS) and GFEBS-Sensitive Activities (SA), Logistics Management Program (LMP), Global Combat Support System (GCSS)-Army, Army Enterprise System Integration Program (AESIP) Hub, and numerous non-ERP systems performing needed logistics and financial functions.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Global Force Information Management	9.705	13.230	17.075
Description: GFIM will provide the Army an integrated, interoperable, and authoritative global force management transactional capability for lifecycle management of global force/organizational structure data for the entire Army. This effort is in direct support of dynamic force structure and dynamic force employment as directed in the National Defense Strategy. GFIM will establish a common standard for force structure data by implementing OSD's Global Force Management-Data Initiative (GFM-DI) directive and Army Data Standard. GFIM will replace the capabilities of 14 legacy systems and 26 subsystems that support the Army's end to end (E2E) business processes for Deploy to Redeploy and Retrograde of Materiel (D2RR). GFIM awarded an OTA Agreement			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: N	/larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>		•	Name) ss System M	odernization
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2022	FY 2023	FY 2024
for a Phase 1 Minimum Viable Product (MVP) (Develop the Future For activities. The OTA will also establish an IL5 and IL6 cloud environmen Objective Environment (OE) (D2RR Data Lake and Analytical Tool) to delivered and the Army can sunset legacy systems.	nt and integrate with the other two components of the G	FIM			
FY 2023 Plans: Using the existing GFIM OTA, FY23 RDTE funds will be used to contin Transactional Material System (TMS) - Develop the Future Force (DFF Phase 1 of the OTA, the vendor developed the DFF prototype, which e DFF prototype will be further developed to the Minimum Viable Product PMO will initiate development of the second element, PCF, and will con solution) using FY23 RDTE funds. These two MVPs combine to form the requisite force structure, deployment, and readiness data needed to ma an Army in Motion. Costs includes software engineering, application de hosting, and development of Cybersecurity protocols/requirements (Se assessments, IL5 and IL6 Authority To Operate (ATOs), etc.). FY23 fund (Unit Verification Testing (UVT) and Unit Acceptance Testing (UAT)) the a robust, capable, user community-accepted product is delivered at the complete in Q1FY24.	F) and Provide the Current Force (PCF). In FY22 under equates to 50% development completion. In FY23, this it (MVP) solution which equates to 70% completion. The mplete the PCF prototype (50% solution) and MVP (70 he authoritative transactional capability that creates the an, equip, train, ready, and resource an Army at Rest a evelopment, data analytics, PMO SETA support, cloud ecurity Control Assessor-Validator (SCA-V) scans and nds will also be used to conduct developmental testing proughout the OTA development process in order to en	e % and			
FY 2024 Plans: GFIM will use FY24 RDTE funding to award a FAR-based Production of Rock Island, IL (ACC-RI). The contract is scheduled to be awarded in 0 development of the DFF and PCF MVPs from the 70% solution to 1009 the established cArmy hosting environment. The vendor, in coordination the GFIM training plan and training materials (virtual, embedded, and ta Army with a fully functional, integrated, interoperable transactional platt deployment, redeployment, retrograde, and readiness data needed to a the Army's Enterprise Resource Planning (ERPs) and Non-ERPs in su will position the Army to sunset the 14 legacy systems being replaced I FY 2023 to FY 2024 Increase/Decrease Statement:	Q1FY24. The FY24 RDTE funding will be used to comp % solution. The capabilities will be architected to reside on with the PMO and functional sponsor, will also devel argeted fielding materials). These capabilities provide form that creates and develops the requisite force stru- man, equip, train, ready, and resource the force and fe pport of multi-domain operations. Development during	olete e in op the cture, ed			
F 1 2023 W F 1 2024 IIICI ease/Deci ease StateIIIeIIt.					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	Project (Number/N T05 / Army Busines Initiatives	,	odernization
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Increase funding supports modifying the acquisition strategy for hosting solution the Army Cloud Hosting environment) to increase efficiencies in FY24. This will efficient architecture and provide cost avoidance in the out-years.				
Title: Army Business System Modernization Initiatives		5.676	-	0.572
Description: Modernization requirements will add new capabilities to legacy I resource functions such as organization and position management, training, ar system standardize and integrate the transactional information systems used i of Army (HQDA) Programming and Budgeting processes. The program is stread budgeting business processes and significantly improving strategic analysis carchitecture reengineers, streamlines, and consolidates HQDA systems and fir the DoD Business Enterprise Architecture (BEA); implements powerful business support strategic planning, programming, and budgeting within HQDA; and programmagement and execution data through system interfaces with required SFIS BOS data model. The LEAP program will provide criminal intelligence querying compliance with regulatory and policy standards for Army Law Enforcement re crimes. LEAP captures criminal case investigative information regarding incide entities (name, social security number, rank, title, physical characteristics, sex, assignment, crime description and identifiers, statements, property data, labora data for criminal intelligence purposes: and reports this information to the prop Commanding Officer to the United States Grand Jury. The system will extract n and input to Defense Incident-Based Reporting System (DIBRS) monthly reports and the Defense Clearance and In updates. The LIMS system will automate business processes that support the processes include, but are not limited to, analytics, materials management, ma Information Act requests (FOIA), legal discovery request, court preparation and civilian Personnel Online - Portal (CPOL-Portal) is a one stop secure site whic employees and HR specialists access to a private portal with a complete set or links and web based applications that require single sign-on access - Army Re will support Civilian human capital decision making and allow leaders and employees to perform their roles more efficiently in support of Civilian Wor will support Civilian human capital decision support and access	nd employment. The PPB BOS n the Headquarters Department amlining programming and apabilities. The PPB BOS nancial feeder systems; aligns to ss intelligence analytical tools to ovides access to GFEBS funds S compliancy integral to the PPB g and reporting capabilities in agarding investigation of felony ents, location descriptors, , birth place, and date), agent atory tests; verifies and stores this er authorities from the Division necessary data for consolidation rts, National Incident-Based nvestigations Index (DCII) daily forensic examiners. These anagement reporting, Freedom of d outsource processing. ch provides Army civilian f employment related resources, agional Tools (ART). CPOL-Portal orkforce Transformation (CWT). It missions. CPOL Portal will			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023			
2040/5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Dev elopment	Project (Number/Name) T05 I Army Business System Modernizat Initiatives				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024		
components of the Army Civilian HCM Life-Cycle and link to G3 'Structure' IT En	terprise Applications.					
The Fully Automated System for Classification (FASCLASS) is a centralized, we civilian position descriptions and position related information across Department classifiers and managers capability to create, edit, and verify position description report generation, and lookup & support capabilities.	of the Army. It provides					
The Overseas Entitlement Tracker (OET) provides the capability to accurately tra (LQA). LQA is provided to reimburse employees for suitable, adequate living qua Government does not provide quarters. OET also tracks these other overseas en Advance Pay, Danger Pay, Imminent Danger Pay, Foreign Differential, Home Le Separation Maintenance Allowance, and Temporary Quarters Subsistence Allow	arters at posts where the U.S. ntitlements for employees: eave, Post Allowance,					
FY 2024 Plans: Continue to fund new and existing Army Business System Modernization Initiativ	ves.					
FY 2023 to FY 2024 Increase/Decrease Statement: Increase in funding to fund new efforts for Army business system modernization.						
Title: Corp of Engineers Installation IT Support		0.951	-	-		
Description: This effort serves as the foundation to modernize Army Installation visualization capabilities; and integration of diverse installation enterprise data set						
Title: Additive Manufacturing		1.807	-	-		
Description: Additive Manufacturing (AM) is a SEC Army priority. AM will fully Thread within the Army ERPs. It will provide a common collaboration portal to e Army and with other DoD entities to address Army readiness driver requirements requests for AM 3D print data, and allow users to search for relevant 3D print da Army industrial base and Army tactical units. It will also enable interface between system	nable sharing of AM 3D print data across the s. Capability will communicate and track user ta with feedback to Engineering Support Acti	<i>v</i> ities,				
Title: Installation Systems Modernization		1.716	-	-		
Description: Consolidation of installation systems and upgrades of applications						
Title: Army Vantage			9.455	3.01		

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>			lame) ss System Mo	odernization
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024
Description: Description: The Army Vantage Program is a data integration and "see itself" by providing Senior Leaders, Soldiers, Staff, and analytic communitivisualize and analyze the current and predicted future state(s) of the Army. Sp views, and provides tools for making data-driven decisions at every level of the allow the Army to (1) see itself clearly through its data, (2) meet its strategic models.	es with a common, integrated data platform to ans all data domains, powers a set of configur Army. The features and advantages of the pla	able atform			
FY 2023 Plans: FY23 RDTE funds will be used to assess and evaluate Advana capabilities, def capabilities, and improve the trustworthiness of Vantage by supporting process subject matter experts verify and endorse the data, sources, pipeline integration quality by making all data visible, accessible, understandable, trusted and interv Make data available to external partners through Common Data Platform capability	champions, domain data stewards and other n and logic. Will also be used to improve data operable.				
FY 2024 Plans: FY24 RDTE will be used to continue effort(s) with ADVANA to mitigate risk with architecture universal data connection adapter to broker data with legacy syste enabling the enterprise data mesh construct.		ben			
FY 2023 to FY 2024 Increase/Decrease Statement: Decrease in FY24 is to continue the development of an Army Community Spac performed in FY23.	e in ADVANA with the majority of the work				
Title: Enterprise Resource Planning (ERP) Modernization			-	0.021	-
Description: The Army created the EBS-C initiative as a strategic direction to r align modern combat and combat support system capabilities with existing mod during multi-domain large-scale combat operations in contested logistics enviro operations resulting in improved financial management and successful audit ou GFEBS and GFEBS-SA, LMP, GCSS-Army, AESIP Hub, and numerous non-E financial functions.	dernization efforts to enable Army force domination onments, and improve overall Army financial atcomes. In-scope DBS for this effort include				
FY 2023 Plans: Funds will be used to analyze legacy ERPs to consider modernization efforts in FY24.	preparation for development efforts starting in	ו ו			
FY 2023 to FY 2024 Increase/Decrease Statement:					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: N	arch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	Project (N T05 / Arm Initiatives		lame) ss System Mo	dernization
B. Accomplishments/Planned Programs (\$ in Millions)		F۱	2022	FY 2023	FY 2024
Funding realigned to EBS-C accomplishment within this program element.					
Title: IEE EBS SYSTEM CONSOLIDATION			-	0.488	-
Description: Development of interface of legacy DBS systems with Enterprise	Resource Planning (ERP) modernization effo	rts.			
FY 2023 Plans: In FY23 RDTE fund will be used for preliminary development of interface of leg Planning (ERP) modernization.	gacy DBS systems with Enterprise Resource				
FY 2023 to FY 2024 Increase/Decrease Statement: Funding realigned to EBS-C accomplishment within this program element.					
Title: IEE EBS FOR FACILITY & ENERGY SYSTEMS (AWERS AND SWARV	Veb)		-	0.303	0.405
Description: Update application software for the Army Energy and Water Rep official database of record for all energy and water usage data, energy program management/recycling program information. AEWRS provides the basis for do statutory and mandated performance metrics for the active Army, National Gua Command, Major Command, Region, Headquarters, and supporting organizati joined with similar reporting from other services and reporting agencies. AEWR Annual Reporting for the Web (SWARWeb) system which was decommissioned software and update/expand data collection as required by revised statutes an	n management information, and solid waste ocumenting and reporting Army progress in me ard, Reserves at the Installation, Subordinate ion levels. Army data is reported to DoD to be RS incorporated as a module the Solid Waste ed. Funding is required to modernize application	eeting			
FY 2023 Plans: In FY23 RDTE funds will be used to update application software for the Army B AEWRS is the Army's official database of record for all energy and water usag and solid waste management/recycling program information. AEWRS provide Army progress in meeting statutory and mandated performance metrics for the Installation, Subordinate Command, Major Command, Region, Headquarters, a is reported to DoD to be joined with similar reporting from other services and re module the Solid Waste Annual Reporting for the Web (SWARWeb) system with modernize application software and update/expand data collection as required EX 2024 Plans:	e data, energy program management informat s the basis for documenting and reporting active Army, National Guard, Reserves at the and supporting organization levels. Army data eporting agencies. AEWRS incorporated as a hich was decommissioned. Funding is require	on,			
FY 2024 Plans: In FY24 RDTE funds will be used to modernize application software for the Arr from the earlier software to improve its risk management posture, as well as pr capabilities required by revised statutes and federal/DoD policies. AEWRS is the	oviding additional of mandated reporting				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		D	ate: M	arch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A <i>I Information Technology Dev</i> <i>elopment</i>	Project (Nun T05 / Army B Initiatives		l ame) ss System Mo	dernization
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2	022	FY 2023	FY 2024
and water usage data, and energy program management information. AEWRS Reporting for the Web (SWARWeb) system which was decommissioned.	S incorporated as a module the Solid Waste Ar	inual			
FY 2023 to FY 2024 Increase/Decrease Statement: Program increase reflects planned lifecycle of this effort.					
Title: IEE EBS BUILDER and PAVER			-	0.470	2.147
Description: Development of interface of Interface Energy and Environment re Enterprise Business Systems-Convergence (EBS-C) for Multifunctional Capabi funds will be used for preliminary development of interface of interface Energy a development of the Real Property Enterprise Sustainment Management System	lities Team (MFCT). In addition, FY23 RDTE and Environment related to Construction and				
FY 2023 Plans: In FY23 RDTE fund will be used for preliminary development of interface of Inter Construction and Real Property with Enterprise Business Systems-Convergence (MFCT). In addition, FY23 RDTE funds will be used for preliminary developmer related to Construction and development of the Real Property Enterprise Susta SMS, and PAVER SMS.	ce (EBS-C) for Multifunctional Capabilities Tea nt of interface of interface Energy and Environ	ment			
FY 2024 Plans: Continued development of ESMS to integrate data, models, work planning, and develop the Application Programming Interface (API). This work is critical to ma enterprise systems in support of DoD and Army readiness assessment and price Department and Service.	ake ESMS data available to EBS-C and other				
FY 2023 to FY 2024 Increase/Decrease Statement: Increase in Funding supports extensive software development efforts expandin FY23, including development of PAVER specific technology and methodology i					
Title: Enterprise Business Systems -Convergence			-	-	41.931
Description: In 2019, SAP announced that SAP would be moving to the next g the current software, ECC. As part of the risk reduction efforts, the Army is executing an Other Transaction Provider or multiple providers to support the development of the EBS-C solution solution with a planned initial capability in early FY26.	n Authority (OTA) to identify a Technical Integra				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Dev elopment	Project (Number/I T05 / Army Busine Initiatives	,	odernization
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
The in-scope Defense Business Systems (DBS) for this effort include GFEBS a and numerous non-ERP systems performing needed logistics and financial fun to improve process agility and cross-process integration, provide consistent use improve data integrity and security. At the enterprise level, EBS-C seeks to inte opportunities to decrease overall DBS redundancies and duplications existing i FY 2024 funding supports development engineering, integration, testing, trainin establish planned capabilities of the program.	ctions. The Army is working EBS-C requireme er experiences with an intuitive user interface, egrate financial and logistics processes and cre in the Army portfolio.	nts and		
FY 2024 Plans: RDT&E funding in FY24 to support EBS-C will provide analysis and prototype(s capabilities, application and technical architecture to support the next phases of government Program Management plan, Systems Engineering and Technical A plan for and manage the initiation of the EBS-C implementation effort. A cloud support the development of modernized finance and logistics capabilities in cor 6 (IL6) requirements. In addition, the EBS-C team will establish a Lean Agile C capability development providing capability to the warfighter through Continuou The LACE will create the agile oversight and methodology to integrate with the FY24.	of the ERP modernization. In support of this, Assistance (SETA) contractors will be needed prototype(s) environment(s) will be established mpliance with Impact Level 4 (IL4) and Impact enter of Excellence (LACE) to prepare for rapid us Integration and Continuous Deployment (CI/	to I to Level d CD).		
Product and Software Development: \$23.8M				
Description: Product and Software Development and prototyping includes all ef labor costs for developing Minimum Viable Products (MVPs) of the ERP Moder environment. The vendors will demonstrate their solution through various know maintaining high levels of cybersecurity posture to set the foundation for Initial (ATO).	rnized solution in the IL4 and IL6 cloud hosted rledge points to Army SMEs and leadership wh	ile		
Program Support: \$15.1M				
Description: Program support includes program operations, acquisition support implementation support and test management for the ERP Modernized solution contractor support, travel and facilities.		agile		
Cloud Support Development \$3.0M				

Exhibit R-2A, RDT&E Project Jus	tification: PB	2024 Army							Date: Ma	rch 2023	
Appropriation/Budget Activity 2040 / 5					05013A I Inf	nent (Numb formation Tec		ect (Number/Name) I Army Business System Moderni: tives			
B. Accomplishments/Planned Pro	ograms (\$ in N	<u>/lillions)</u>						F	Y 2022	FY 2023	FY 2024
Description: Cloud support includes access for vendors, in support of In development for the vendors condu	npact Level 4 a	and Impact L	evel 6 enviro	onments. En				note			
FY 2023 to FY 2024 Increase/Dec Increase in FY24 supports impleme support, system integration services Limited Deployment (ILD) planned financial ERP systems (GFEBS, GF systems reducing redundancy exist and civilians.	entation and er s and impleme for FY26 (pend FEBS-SA, GCS	ables fundir ntation of th ling vendor t SS-ARMY, L	e engineerin feedback). T .MP, and AE	g to deliver l he EBS-C et SIP) as well	Vinimum Via ffort intends as numerou	able Products to converge s, smaller de	s in support o five logistics efense busine	f Initial and ess			
Title: SBIR/STTR									-	0.908	-
Description: Funding transferred in FY 2023 Plans: Funding transferred in accordance	with Title 15 U	SC §638	050 8638								
FY 2023 to FY 2024 Increase/Dec Funding transferred in accordance											
				Accon	nplishment	s/Planned P	rograms Sub	ototals	19.855	24.875	65.14
C. Other Program Funding Summ	nary (\$ in Milli	ons)									
Line Item • B66002: Army Contract Writing System	<u>FY 2022</u> 14.957	<u>FY 2023</u> 4.075	<u>FY 2024</u> <u>Base</u> 6.061	<u>FY 2024</u> <u>OCO</u> -	<u>FY 2024</u> <u>Total</u> 6.061	<u>FY 2025</u> 14.226	<u>FY 2026</u> 9.858	<u>FY 2027</u> 10.064	<u>FY 2028</u> 10.274	Cost To Complete 0.000	<u>Total Cos</u> 69.51
• OMA - 438001000: Operations and Maintenance Remarks	-	-	70.254	-	70.254	114.400	118.100	121.500	126.119	0.000	550.37
OMA and OPA funding for EBS-C	were programr	ned in POM	24-28.								

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 5	PE 0605013A I Information Technology Dev	T05 I Army	Business System Modernization
	elopment	Initiatives	

D. Acquisition Strategy

GFIM utilizes an Other Transactional Authority (OTA) vehicle for development of the GFIM prototypes and Minimum Viable Products through Q1FY24. GFIM plans to award a Federal Acquisition Regulation (FAR)-based production contract through Army Contracting Command-Rock Island (ACC-RI) in Q1FY24 to finalize development of the GFIM solution, transition the architecture to the cArmy hosting environment, and transition to the production environment. The Army is working through the optimal approach and will include contract options for FY25 and out.

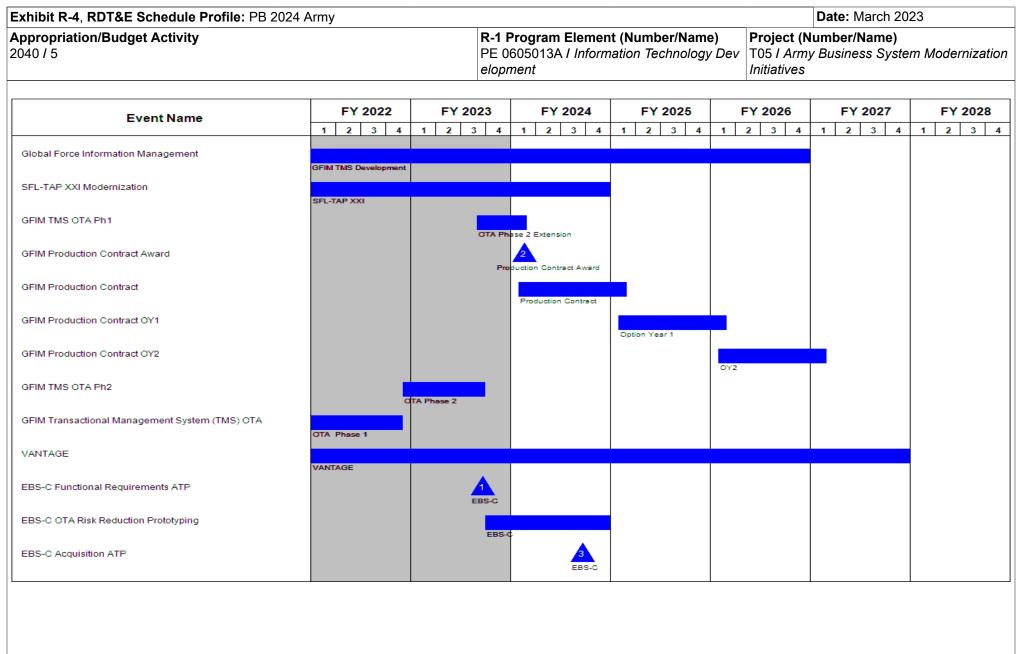
EBS-C is following the Business Capability Acquisition Cycle and is expected to be a BCAT I Program. As part of the risk reduction efforts, the Army is executing an Other Transaction Authority (OTA) to identify a Technical Integration Provider or multiple providers to support the development of the EBS-C solution. The first prototype award to multiple vendors will be executed in FY23 with a final vendor selection to be completed by the end of FY24. This will lead to development of the EBS-C solution with a planned initial capability in early FY26. Additionally, EBS-C is developing a production contract for the deployment, enhancement and sustainment of the cloud-solution in the cArmy infrastructure.

Army Vantage is following the Business Capability Acquisition Cycle and is expected to be a BCAT II program. As a part of risk reduction efforts in the transition of the Other Transaction Authority (OTA) Army Vantage pilot, FY24 RDTE will be used to continue effort(s) with the ADVANA Army Community, pilot an open architecture universal data connector adapter to broker data with legacy systems, and further support the Army Chief Information Officer's (CIO) API layer pilots informing the enterprise data mesh construct.

Exhibit R-3, RDT&E P	Project C	ost Analysis: PB 2	024 Army	/								Date:	March 20	023	
Appropriation/Budge 2040 / 5	t Activity	1		R-1 Program Element (Number/Name)Project (Number/Name)PE 0605013A I Information Technology Dev elopmentT05 I Army Business System Modern Initiatives							rnization				
Management Service	s (\$ in M	illions)		FY 2	2022	FY 2	023		2024 ase	FY 2 OC	2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
OA22 - G-8 Funding	TBD	TBD : TBD	-	1.716		-		-		-		-	0.000	1.716	-
SBIR/STTR	TBD	Various : Various	-	-		0.908		-		-		-	0.000	0.908	-
	1	Subtotal	-	1.716		0.908		-		-		-	0.000	2.624	N/A
Product Developmen	it (\$ in Mi	illions)		FY 2	2022	FY 2	023		2024 ase	FY 2	2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Army Business System Modernization Initiatives	TBD	To Be Determined : To Be Determined	34.435	5.676		-		0.572		-		0.572	Continuing	Continuing	-
Global Force Information Management	Option/ CPAF	CACI : Chantilly, VA	15.644	9.705		13.230		17.075		-		17.075	Continuing	Continuing	Continuing
Corp of Engineers Installation IT Suppor	MIPR	Engineer Research and Development Center : Champaign IL	1.725	0.951		-		-		-		-	0.000	2.676	-
Additive Manufacturing	C/CPFF	Accenture : Picatinny Arsenal NJ	4.958	1.807		-		-		-		-	0.000	6.765	-
VANTAGE	C/TBD	TBD : TBD	-	-		9.455		3.013		-		3.013	0.000	12.468	-
Enterprise Business Systems Convergence (EBS-C)	C/TBD	TBD : TBD	-	-		-		41.931		-		41.931	0.000	41.931	-
IEE EBS SYSTEM CONSOLIDATION	C/TBD	TBD : TBD	-	-		0.488		-		-		-	0.000	0.488	-
IEE EBS FOR FACILITY & ENERGY SYSTEMS (AEWRS AND SWARWeb)	C/TBD	TBD : TBD	-	-		0.303		0.405		-		0.405	0.000	0.708	-
IEE EBS BUILDER and PAVER	C/TBD	TBD : TBD	-	-		0.470		2.147		-		2.147	0.000	2.617	-
ERP Modernization	C/TBD	TBD : TBD	-	-		0.021		-		-		-	0.000	0.021	-
		Subtotal	56.762	18.139		23.967		65.143		-		65.143	Continuing	Continuing	N/A

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Appropriation/Budget	roject Co	st Analysis: PB 2	024 Army	/								Date:	March 20	23	
2040 / 5	t Activity					R-1 Program Element (Number/Name)Project (Number/Name)PE 0605013A / Information Technology Dev elopmentT05 / Army Business System Modernization									rnization
Product Development	t (\$ in Mill	lions)	FY 2022		2022	FY 2023		FY 2024 Base			2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value o Contrac
Management - Data Initiative The Army Human Resource Personnel and Pay System(for IPPS-A subsumption or u System (DBA), Enlisted Dist Management System (HIMS Reserve Component Comm Management System Webifi (TAPDB-AO), Total Army Pe Management Information Sy	es Command (IPPS-A). Th upgrade are to tribution and 6), Integrated non Personne fied Suite of S ersonnel Data	e other is to disconned the Automated Orders Assignment system (E I Total Army Personnel el Data System (RSAS/ System (SMSWEB), To a Base - Active Reserv PMIS II), Keystone Rec	ct and upgra and resourd DAS), Enlis I Database (/RCCPDS), otal Army Pe ve (TAPDB-, quest/Retain	ade those s ces Systen sted Promo (ITAPDB), Senior Enl ersonnel D AR), Total n System, a	systems not n (AORS), A otion Model (Officer Selec listed Promo ata Base - A Officer Pers and the Inter	being subsu rmy Selecti EPM), Ente ction Suppo tions Mode .ctive Enliste onnel Mana active Perse	umed by IPF on Board Sy prprise Servi ort System (4 I (SEPM), S ed (TAPDB- agement Info onnel Electr	PS-A. Syste ystem (ASE ce Bus (ES OSSS), Re ingle Evalu (AE), Total prmation Sy onic Recor	ems that will 3S), Data Ba 3B), Human I serve Statist action Proces Army Person ystem (TOPN ds Managen	be targeted se Adminis Resource C ics Accoun ssing Syste nnel Data B MIS), Total nent Systen	l by HRC to tration Suite command Ic ting System m (SEPS), ase - Active Officer Pers n (iPERMS)	o prepare e of lentity n/ Soldier e Officer sonnel).			
	hown reflects	SIPERINS IT Integration						Application		(_			
HRC Core IT: Award date sl date of 6 Feb 2018.	hown reflects		Prior	EV	2022			FY	2024	FY	2024	FY 2024	Cost To	Total	Target Value of
		Project Cost Totals	Prior Years 56.762	FY 2 19.855	2022		2023	FY	2024 ase	FY	2024 CO	FY 2024 Total	Cost To Complete Continuing	Cost	Value Contra



khibit R-4, RDT&E Schedule Profile: PB	2024 Army				Date: March 202	23			
ppropriation/Budget Activity 040 / 5			R-1 Program Element (Number/Name)Project (NetPE 0605013A I Information Technology DevT05 I ArmyelopmentInitiatives						
Event Name		FY 2023 FY 2024		FY 2026	FY 2027	FY 2028			
EBS-C OTA Phase 2 ILD Deployment			EBS-C						
EBS-C Limited Deployment ATP			EP3-0	EBS-C					
EBS-C Phase 3 Cont Integration/Cont Dev				EBS-C					
				2000					

hibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Marc	h 2023
propriation/Budget Activity 40 / 5	R-1 Program Element PE 0605013A / Informa elopment		Dev	Project (Number/Nan T05 <i>I Army Business S</i> Initiatives	
	Schedule Details				
		Start		E	nd
Events	Qua	rter	Year	Quarter	Year
Global Force Information Management	2	<u>!</u>	2019	4	2026
HRC Core IT	4		2018	4	2020
SFL-TAP XXI Modernization	1		2019	4	2024
GFIM TMS OTA Ph1	3		2023	1	2024
GFIM Production Contract Award	1		2024	1	2024
GFIM Production Contract	1		2024	1	2025
GFIM Production Contract OY1	1		2025	1	2026
GFIM Production Contract OY2	1		2026	1	2027
GFIM TMS OTA Ph2	4		2022	3	2023
GFIM Transactional Management System (TMS) OTA	1		2022	4	2022
Capabilities Requirement Document	1		2020	1	2021
VANTAGE	1		2018	4	2027
EBS-C Functional Requirements ATP	3		2023	3	2023
EBS-C OTA Risk Reduction Prototyping	4		2023	4	2024
EBS-C Acquisition ATP	3		2024	3	2024
EBS-C OTA Phase 2 ILD Deployment	4		2024	2	2026
EBS-C Limited Deployment ATP	2	2	2026	2	2026
EBS-C Phase 3 Cont Integration/Cont Dev	3		2026	4	2032

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	rmy							Date: Marc	ch 2023		
Appropriation/Budget Activity 2040 / 5											Jumber/Name) MIS-R (REPORTIT)		
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	
VR3: ASMIS-R (REPORTIT)	-	3.064	3.341	3.270	-	3.270	3.350	3.386	3.423	3.494	0.000	23.328	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

A. Mission Description and Budget Item Justification

The Army Safety Management Information System (ASMIS) 2.0 is the Army's designated system of record for Army Safety and Occupational Health (SOH) data collection, information management, decision support, and reporting. It is built to holistically support the information management needs of the Army SOH program in accordance with Public Law 91-596, Executive Order 12196, DoDI 6055.01, The Army Strategy LOE 1: Build Readiness, LOE 2: Modernize, AR 385-10, and ASA(IEE) strategic guidance. ASMIS 2.0 provides support for the five key Army SOH capabilities: (1) Mishap and Near Miss Investigations and Reporting, (2) Safety Assessments and Inspections, (3) Hazard Management, (4) SOH Program Management, and (5) SOH Training and Education.

ASMIS 2.0 enables commanders and Army senior leaders to use data collected via these five key capabilities and other DoD data sources to prevent accidental losses, reduce associated costs, and enhance readiness. ASMIS 2.0 currently interfaces with 9 DoD systems and will interface with 22 upon completion. It directly supports the Warfighter through improved IT-enabled business processes and enterprise data analytics to enhance decision-making at all levels of the Army through greater use of leading indicators. In support of the Army Data Strategy, ASMIS 2.0 enables the Army to make SOH data visible, accessible, understandable, linked, trustworthy, interoperable, and secure (VAULTIS). Beyond the cost avoidance and reduction achieved by loss prevention, ASMIS 2.0 provides additional cost savings by eliminating 12 legacy systems.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: ASMIS-R Development	3.064	3.219	3.270
Description: ASMIS 2.0 provides a framework of people, processes, and technology to synchronize, integrate and optimize Army SOH capabilities to preserve war fighting capabilities and enhance the force by providing a safe and healthy environment for Soldiers, Families, Civilians, and contractors. An analysis of Army SOH DOTMLPF-P in 2014 determined that the legacy system, a Defense Business System, was not able to satisfy current and emerging SOH capability requirements without modernization to resolve these capability gaps. Changes in requirements for the Army Safety and Health Management System (Programmatic) related to DoDI 6055.01, AR 385-10, Information Assurance requirements and direct feedback from the Safety professionals within the DoD and the Army have resulted in the need for changes in associated business processes. Additionally, a business gap analysis performed by the ASA(ESOH) revealed a deficiency in the system's requirements that would support Army Commands in identifying hazards in the workplace, determining hazard mitigation strategies and controls, employing these strategies and controls, and measuring their potential for reducing mishaps. Addressing these problems will have an immediate and direct impact on meeting regulatory requirements, improving data integrity, improving information assurance posture (compliance), increasing the Army's ability to reduce mishaps across the force structure, and promoting ARFORGEN capabilities.			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023		
Appropriation/Budget Activity 2040 / 5	Project (Number/Name) VR3 <i>I ASMIS-R (REPORTIT)</i>				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024	
FY 2023 Plans: Continue modernization of ASMIS 2.0. In FY23 the Program Man will be available for Army-wide use to provide safety professionals health of their SOH programs and focus efforts on the areas need	s, commanders, and senior leaders to effectively measure the				
FY 2024 Plans: In FY24 the SOH Training & Education capability will be fielded for and supervisors to effectively execute and track SOH training bas		ls			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease reflects planned lifecycle of this effort.					
Title: SBIR/STTR Transfer		-	0.122	-	
Description: Funding transferred in accordance with Title 15 US	C §638				
FY 2023 Plans: Funding transferred in accordance with Title 15 USC §638					
FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC §638					
	Accomplishments/Planned Programs Subt	otals 3.064	3.341	3.270	
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u>					
D. Acquisition Strategy ASMIS 2.0 is comprised of five distinct capabilities, as outlined or that enables the primary data collection modules to be completed			• •	uencing	
The acquisition strategy employed executed separate contracts f With the maturity of the fielded capabilities in support of the first t the development and deployment of the latter two. This contract	hree, a multi-year contract was issued for the sustainment ar	nd operation of the			

Acquisition is executed and managed by the USACRC and the organization is directly engaged with its Contracting Office and Contracting Office Representative.

Appropriation/Budg 2040 / 5	et Activity	/					5013A / I		lumber/N on Techno			(Numbe SMIS-R (,	IT)	
Management Servic	es (\$ in M	illions)		FY	2022	FY 2	023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.122		-		-		-	0.000	0.122	-
		Subtotal	-	-		0.122		-		-		-	0.000	0.122	N/A
Product Developme	nt (\$ in M	illions)		FY	2022	FY 2	023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ASMIS-R	MIPR	DLA : Fort Belvoir, VA	1.109	-		0.341		-		-		-	Continuing	Continuing	j –
		Subtotal	1.109	-		0.341		-		-		-	Continuing	Continuing) N/A
Support (\$ in Millior	is)		[FY	2022	FY 2	023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ASMIS-R	MIPR	DLA : Fort Belvoir, VA	9.296	3.064		2.878		3.270		-		3.270	Continuing	Continuing	
		Subtotal	9.296	3.064		2.878		3.270		-		3.270	Continuing	Continuing) N/A
			Prior Years	FY	2022	FY 2	023		2024 ase		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	10.405	3.064		3.341		3.270		-		3 270	Continuing	Continuino	N/A

chibit R-4, RDT&E Schedule Profile: PE	3 2024 Army			Date: Marci	
opropriation/Budget Activity 40 / 5		PE 0605013A / elopment	lement (Number/Name) Information Technology Dev	Project (Number/Nam V VR3 / ASMIS-R (REPC	e) DRTIT)
Event Name	FY 2022	FY 2023 FY 20		FY 2026 FY 202	
roduct Development	1 2 3 4 1	2 3 4 1 2 3	3 4 1 2 3 4 1	2 3 4 1 2 3	4 1 2 3

	UNULAUUII II	.0			
xhibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: March	n 2023
oppropriation/Budget Activity 040 / 5	R-1 Progra PE 0605013 <i>elopment</i>	n Element (Number A I Information Tech	Name) Pro nology Dev VR3	ject (Number/Name 3 I ASMIS-R (REPO	e) RTIT)
	Schedule Deta	ils			
		Sta	rt	En	d
Events		Quarter	Year	Quarter	Year
Product Development		3	2018	4	2027

Exhibit R-2, RDT&E Budget Iten						Date: Marc	ch 2023					
Appropriation/Budget Activity2040: Research, Development, Test & Evaluation, Army I BA 5: SystemDevelopment & Demonstration (SDD)				R-1 Program Element (Number/Name) PE 0605018A I Integrated Personnel and Pay System-Army (IPPS-A)								
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	-	65.230	67.519	102.084	-	102.084	95.129	60.124	44.481	38.293	Continuing	Continuing
ED9: Integrated Personnel and Pay System - Army Inc 2	-	65.230	67.519	102.084	-	102.084	95.129	60.124	44.481	38.293	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Integrated Personnel and Pay System-Army Increment II (IPPS-A Inc II) provides an integrated, multi-Component, personnel and pay system that streamlines existing Human Resources (HR) systems and processes by enhancing efficiency and accuracy of personnel and pay procedures in support of 1.1 million Soldiers. This program is an essential building block to reform the Department of the Army towards achieving greater performance and affordability in support of the National Defense Strategy and the Congressional audit mandate.

The IPPS-A program has deployed two major software releases:

Release 2 completed a phased deployment of Military Human Resource capabilities to all Army National Guard (ARNG) units in the 54 states and territories in March 2020. Release 2 replaced the Standard Installation/Division Personnel System and consolidated many disparate state/territory systems into one single solution. Release 3 completed a phased deployment of Military Human Resource and talent management capabilities across all Army components (Active, Guard and Reserve) in January 2023. Release 3 fully subsumed 12 legacy systems and 11 partial capabilities bringing the Army's Total Force into a single authoritative system.

In accordance with the Acquisition Strategy approved by the Army Acquisition Executive on 21 June 2022, the next major software capabilities are Military Payroll (previously referred to as Release 4) and providing software enhancements to the existing solution. The program is transitioning from a waterfall development approach to an agile development approach for future delivery of capabilities.

The FY 2024 RDT&E budget supports technical analysis for the Military Payroll solution and provides funding for a competitive contract award to begin iterative design and build for the future capabilities. In addition, the funding will support software enhancements for the Human Resource capabilities.

xhibit R-2, RDT&E Budget Item Justification: PB 2024 A	rmy			Date:	March 2023
ppropriation/Budget Activity 040: Research, Development, Test & Evaluation, Army I BA Development & Demonstration (SDD)	5: System		ement (Number/Name) ntegrated Personnel and		PPS-A)
8. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	67.701	67.564	94.133	-	94.133
Current President's Budget	65.230	67.519	102.084	-	102.084
Total Adjustments	-2.471	-0.045	7.951	-	7.951
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-2.471	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	7.951	-	7.951
FFRDC Transfer	-	-0.045	-	-	-

Change Summary Explanation

The increase in FY 2024 RDT&E is a result of an Army adjustment to support refined program costs for Infrastructure Hosting and Software Development.

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	rmy							Date: Marc	h 2023	
Appropriation/Budget Activity 2040 / 5					R-1 Progra PE 060501 ay System	8A I Integra	ated Person	er/Name) Project (Number/Name) onnel and P ED9 I Integrated Personnel and Pa - Army Inc 2				ay System
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
ED9: Integrated Personnel and Pay System - Army Inc 2	-	65.230	67.519	102.084	-	102.084	95.129	60.124	44.481	38.293	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Integrated Personnel and Pay System-Army Increment II (IPPS-A Inc II) provides an integrated, multi-Component, personnel and pay system that streamlines existing Human Resources (HR) systems and processes by enhancing efficiency and accuracy of personnel and pay procedures in support of 1.1 million Soldiers. This program is an essential building block to reform the Department of the Army towards achieving greater performance and affordability in support of the National Defense Strategy and the Congressional audit mandate.

The IPPS-A program has deployed two major software releases:

Release 2 completed a phased deployment of Military Human Resource capabilities to all Army National Guard (ARNG) units in the 54 states and territories in March 2020. Release 2 replaced the Standard Installation/Division Personnel System and consolidated many disparate state/territory systems into one single solution. Release 3 completed a phased deployment of Military Human Resource and talent management capabilities across all Army components (Active, Guard and Reserve) in January 2023. Release 3 fully subsumed 12 legacy systems and 11 partial capabilities bringing the Army's Total Force into a single authoritative system.

In accordance with the Acquisition Strategy approved by the Army Acquisition Executive on 21 June 2022, the next major software capabilities are Military Payroll (previously referred to as Release 4) and providing software enhancements to the existing solution. The program is transitioning from a waterfall development approach to an agile development approach for future delivery of capabilities.

The FY 2024 RDT&E budget supports continued technical analysis for the Military Payroll solution and provides funding for a competitive contract award to begin iterative design and build for the future capabilities. In addition, the funding will support software enhancements for the Human Resource capabilities.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Acquisition and Technical Support Services	1.360	1.214	1.291
Description: Provides acquisition support services and technical support for cybersecurity and infrastructure management. Includes Program Management Support and PMO Change Management Travel.			
FY 2023 Plans: The FY23 RDT&E funding provides acquisition support services and technical support for cybersecurity and infrastructure management.			
FY 2024 Plans:			

PE 0605018A: Integrated Personnel and Pay System-Army... Army

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023		
Appropriation/Budget Activity 2040 / 5	•	•	ect (Number/Name) I Integrated Personnel and Pay System by Inc 2		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 20	22	FY 2023	FY 2024
The FY23 RDT&E funding provides acquisition support services an management.	d technical support for cybersecurity and infrastructure				
FY 2023 to FY 2024 Increase/Decrease Statement: Increase due to slight increase in support services and technical su	ipport costs.				
Title: Technical Services		11	.905	15.272	15.992
Description: Provides technical and program management contract business process design, enterprise architecture management, dat infrastructure management, audit support, training and deployment Support and Technical Services.	a management, interface management, testing, cybersecu				
FY 2023 Plans: The FY23 RDT&E funding provides technical and program manage including business process design, enterprise architecture manage cybersecurity, infrastructure management, audit support, training a	ment, data management, interface management, testing,				
FY 2024 Plans: The FY23 RDT&E funding provides technical and program manage including business process design, enterprise architecture manage cybersecurity, infrastructure management, audit support, training a	ment, data management, interface management, testing,				
FY 2023 to FY 2024 Increase/Decrease Statement: The increase to FY24 supports the agile development and delivery	of future capabilities including Military Payroll.				
Title: Design, Development and Integration		39	.835	39.921	64.898
Description: Funds the design, development, integration, and dep capabilities for 1.1 Million Soldiers across all Army Components.	loyment of Human Resource, Military Payroll, and future				
FY 2023 Plans: The FY23 RDT&E funding supports completion of the software and Soldiers across all Army Components and funds technical analysis an agile software development approach.	•				
FY 2024 Plans:					
			·		

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605018A <i>I Integrated Personnel and P</i> <i>ay System-Army (IPPS-A)</i>	Project (Number/Name) ED9 I Integrated Personnel and Pay Syste - Army Inc 2				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024		
The FY24 RDT&E funding supports continued technical analysis iterative design and build for the Military Payroll and other future enhancements for the Human Resource capabilities.		gin				
FY 2023 to FY 2024 Increase/Decrease Statement: Additional RDT&E in FY24 supports the agile design and develop fiscal year in FY23.	pment of future capabilities for a full fiscal year versus a part	tial				
Title: Network Support / Hardware Leasing		7.869	6.686	14.38		
Description: Supports infrastructure hosting at Defense Informa memory, and associated labor costs to maintain the IPPS-A software.		l,				
FY 2023 Plans: The FY23 funding supports infrastructure hosting at Defense Informemory, and associated labor costs to maintain the IPPS-A software.		ssing,				
FY 2024 Plans: The FY24 funding supports infrastructure hosting at Defense Info processing, memory, and associated labor costs to maintain the		•				
FY 2023 to FY 2024 Increase/Decrease Statement: Additional RDT&E in FY24 supports revised infrastructure hostin	g costs based on additional Cybersecurity requirements.					
Title: Systems Interfaces		1.796	1.962	5.52		
Description: Supports other government agencies providing tec end data integration.	hnical services for interface design and build to enable end-	to-				
FY 2023 Plans: The FY23 funding supports other government agencies providing to-end data integration.	g technical services for interface design and build to enable	end-				
FY 2024 Plans: The FY24 funding supports other government agencies providing to-end data integration.	g technical services for interface design and build to enable	end-				
FY 2023 to FY 2024 Increase/Decrease Statement:						

PE 0605018A: Integrated Personnel and Pay System-Army... Army

Exhibit R-2A, RDT&E Project Justi	fication: PB	2024 Army							Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5				PE 06	r ogram Ele r 05018A / Int stem-Army (I	egrated Pers	er/Name) sonnel and P	Project (Number/Name) ED9 / Integrated Personnel and Pay - Army Inc 2			
B. Accomplishments/Planned Prog	grams (\$ in I	<u>Millions)</u>						ſ	FY 2022	FY 2023	FY 2024
Additional RDT&E in FY24 supports future capabilities including Military F	-	stem interfac	ce requireme	ents in suppo	ort of the agil	e developme	ent for deliver	y of			
Title: Test and Evaluation									2.465	-	-
Description: There is no Test and E	valuation for	FY24									
Title: FY 2023 SBIR/STTR Transfer									-	2.464	-
Description: Funding transferred in	accordance	with Title 15	USC §638.								
FY 2023 Plans: Funding transferred in accordance w	ith Title 15 U	SC §638.									
FY 2023 to FY 2024 Increase/Decre Funding transferred in accordance w											
				Accor	nplishments	s/Planned P	rograms Sub	ototals	65.230	67.519	102.084
C. Other Program Funding Summa	ry (\$ in Milli	ons)									
			FY 2024	FY 2024	FY 2024					Cost To	<u> </u>
Line Item	FY 2022	FY 2023	Base	000	Total	FY 2025	FY 2026	FY 202		•	Total Cost
• B66706: IPPS-A INC 2	16.077	6.926	5.318	-	5.318	5.229	6.266	7.35		8 Continuing	
OMA - Sustainment and Support OMA: OMA - 432612000	107.056	107.180	110.253	-	110.253	112.045	119.371	146.70)4 145.13	9 Continuing	Continuing

<u>Remarks</u>

B66706000 (Other Procurement, Army) funding supports continued system implementation and deployment of the Integrated Personnel and Pay System-Army Increment III (IPPS-A Inc II). Procurement funds will support training and instruction development for Release 4 and continuous improvements for all Army components (Army, National Guard, Reserves - 48,700 total Human Resource transactional users).

432612000 (Operation and Maintenance, Army (OMA)) funding supports overall software system sustainment including Help Desk support (Tier I through Tier II), system maintenance break/fixes, minor enhancements, software licenses, cyber compliance, program office contractor support, civilian salaries, and program office operations. IPPS-A now supports 1.1 million system users as of January 17, 2023.

D. Acquisition Strategy

The Integrated Personnel and Pay System-Army Increment II (IPPS-A Inc II) provides an integrated, multi-Component, personnel and pay system that streamlines existing Human Resources (HR) systems and processes by enhancing efficiency and accuracy of personnel and pay procedures in support of 1.1 million Soldiers.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023
2040 / 5	PE 0605018A / Integrated Personnel and P	•	umber/Name) grated Personnel and Pay System 2

The IPPS-A program achieved a Milestone B on 14 December 2014 under the authority of Department of Defense Instruction (DODI) 5000.02. The program transitioned to a Priority Defense Business System Category I (BCAT I) under the authority of the DODI 5000.75 and has implemented a tailored Acquisition approach for Defense Business Systems.

In accordance with the Acquisition Strategy approved by the Army Acquisition Executive on 21 June 2022, the next major software capabilities are Military Payroll (previously referred to as Release 4) and providing software enhancements to the existing solution. The program is transitioning from a waterfall development approach to an agile development approach for future delivery of capabilities.

With the transition to an agile implementation approach along with recent responses from industry the IPPS-A contracting strategy is being revised to better support future competition for delivery of the future capabilities.

Exhibit R-3, RDT&E I Appropriation/Budge 2040 / 5						PE 060		ntegrated	l umber/Na Personne			(Number Integrated Inc 2	,	l and Pay	/ System
Management Service	es (\$ in M	illions)		FY	2022	FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Acquisition and Technical Support Services	C/CPIF	Various : Various	32.208	1.360	Jun 2022	1.214	Jun 2023	1.291	Jun 2024	-		1.291	Continuing	Continuing	Continuing
PMO Change Management Travel	Allot	PM IPPS-A : Arlington, VA	-	-		0.072		-		-		-	Continuing	Continuing	Continuing
FY 2023 SBIR/STTR Transfer	TBD	Various : Various	-	-		2.464		-		-		-	0.000	2.464	-
		Subtotal	32.208	1.360		3.750		1.291		-		1.291	Continuing	Continuing	N/A
Product Developmer	nt (\$ in Mi	llions)		FY	2022	FY 2	2023		2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Services	C/CPFF	MITRE : Various	-	11.905	Jul 2022	15.272	Mar 2023	15.992	Mar 2024	-		15.992	Continuing	Continuing	Continuing
Design, Development and Integration	C/Various	To Be Determined : To Be Determined	-	39.835	Mar 2022	39.849	Dec 2022	64.898	Jun 2023	-		64.898	Continuing	Continuing	Continuing
Network Support / Hardware Leasing	MIPR	Defense Information Systems Agency (DISA) Defense Enterprise Computing Center (DECC) : various	178.434	7.869	Jan 2022	6.686	Jan 2023	14.381	Dec 2023	-		14.381	Continuing	Continuing	Continuing
Systems Interfaces	C/ FFPLOE	Various Government Agencies : Various Locations	24.130	1.796	Jul 2022	1.962	Jul 2023	5.522	Dec 2023	-		5.522	Continuing	Continuing	Continuin
		Subtotal	202.564	61.405		63.769		100.793		-		100 793	Continuing	Continuing	N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	024 Arm	у								Date:	March 20	023	
Appropriation/Budg 2040 / 5	R-1 Program Element (Number/Name)Project (Number/Name)PE 0605018A I Integrated Personnel and P ay System-Army (IPPS-A)ED9 I Integrated Personnel and F - Army Inc 2						el and Pay	/ System							
Test and Evaluation	(\$ in Milli	ons)		FY	2022	FY 2	023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Increment II-Operational Test - Limited User Test (LUT)	MIPR	Various Government Agencies : Various	3.437	2.465	Oct 2021	-		-		-		-	0.000	5.902	-
		Subtotal	3.437	2.465		-		-		-		-	0.000	5.902	N/A
		ſ	Prior Years	FY	2022	FY 2	023		2024 ase		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	238.209	65.230		67.519		102.084		-		102.084	Continuing	Continuing	N/A

Remarks

xhibit R-4, RDT&E Schedule Profile: PB 2024 ppropriation/Budget Activity 040 / 5			PE 0605		n t (Number/Na r rated Personnel °S-A)	ED9 / Inte	Date: March 2023 Project (Number/Name) ED9 I Integrated Personnel and Pay System - Army Inc 2					
Event Name	FY 2022	FY 20	23	FY 2024	FY 2025		FY 2026	FY 2027	FY 2028			
Release 3 - Human Resources - All Army Components	Release 3.0		4 1	2 3 4			2 3 4	1 2 3 4	1 2 3			
Release 3 - Testing and Evaluation	Testing and Evaluation											
Release 3 - Limited Deployment Authority To Proceed (ATP)			ATP									
Release 3 - Go-Live		Release 3.0 Go-l										
Release 3 - Software Stabilization	s	oftware Baseline										
Capability Support Contract Award			Cor	3 htract Award Capabil	ity Support							
Future Capabilities (R4) - Military Payroll analysis / t		Military Pa		and technical studies								
Agile Development and Delivery of Future Capabilities						45.4						
				Development and	Incremental Deployment	ofFuture	Capabilities					

nibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: March	า 2023	
propriation/Budget Activity 40 / 5	R-1 Program Element (Number/Name PE 0605018A <i>I Integrated Personnel an</i> <i>ay System-Army (IPPS-A)</i>	d P EI	Project (Number/Name) ED9 / Integrated Personnel and Pay - Army Inc 2		
S	Schedule Details				
	Start		En	d	
Events	Quarter Y	ear	Quarter	Year	
Milestone B (MS B) - Increment II	1 2	015	1	2015	
Release 2 - SIDPERS Functionality (ARNG)	4 2	015	3	2020	
Release 2 - Configuration, Development, and Integration	3 2	017	3	2018	
Release 2 - T & E	4 2	018	2	2019	
Release 2 - Limited Deployment Authority To Proceed (ATP)	3 2	019	3	2019	
Release 3 - Human Resources - All Army Components	4 2	017	2	2023	
Release 3 - Design and Development	2 2	020	3	2021	
Release 3 - Integrated Baseline Review (IBR)	3 2	018	3	2018	
Release 3 - Preliminary Design Review (PDR)	4 2	019	4	2019	
Release 3 - Critical Design Review (CDR)	1 2	020	1	2020	
Release 3 - Testing and Evaluation	3 2	021	3	2023	
Release 3 - Limited Deployment Authority To Proceed (ATP)	1 2	023	1	2023	
Release 3 - Go-Live	1 2	023	1	2023	
Release 3 - Software Stabilization	4 2	022	4	2023	
Capability Support Contract Award	2 2	024	2	2024	
Future Capabilities (R4) - Military Payroll analysis / technical studies	2 2	023	4	2024	
Agile Development and Delivery of Future Capabilities	2 2	024	2	2029	

Exhibit R-2, RDT&E Budget Iten	Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army										Date: March 2023		
	2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)						t (Number/ ed Multi-Pul						
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	0.000	34.262	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	34.262	
EB5: Armored Multi-Purpose Vehicle	-	34.262	-	-	-	-	-	-	-	-	0.000	34.262	

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Next Generation Combat Vehicle (NGCV) Army Modernization Priority. The Armored Multi-Purpose Vehicle (AMPV) is the materiel solution for replacement of the Army's Armored Personnel Carrier (M113) Family of Vehicles (FoV) within the Armored Brigade Combat Team (ABCT). It will mitigate current and future capability gaps in force protection, mobility, reliability, and interoperability across the Spectrum of Conflict. The AMPV will replace five mission roles currently performed by the M113 FoV by transferring the current M113 mission equipment packages to a new Military Vehicle Derivative platform. In total, the AMPV FoV will account for approximately 30% of the ABCT's tracked fleet and consists of the following five variants:

1. Mission Command Vehicle (MCmd): This platform enables effective mission command planning and execution for both the Tactical Operations Center and Tactical Command Vehicle versions of the MCmd. It will host current Battle Command Systems, future replacements, and upgrades of hardware and software.

2. Medical Treatment (MT) Vehicle: This platform will provide a protected surgical environment, with adequate lighting and accessible medical equipment. It will provide a capability for immediate medical care for one patient by a medical crew of four.

3. Medical Evacuation (ME) Vehicle: This platform will conduct ambulance type activities and provide casualty evacuation for up to four litters or six ambulatory patients, with a crew of three medical attendants.

4. General Purpose (GP) Vehicle: This platform will operate throughout the battle space by conducting re-supply, maintenance, casualty evacuation, and other tasks within the formation.

5. Mortar Carrier (MC) Vehicle: This platform will provide immediate responsive fire support to conduct fast-paced offensive operations.

The AMPV program was initiated as an Acquisition Category (ACAT) ID program at Milestone B (MS B). The Defense Acquisition Executive signed the Acquisition Decision Memorandum (ADM) on 22 December 2014, authorizing entry into the Engineering and Development phase and approving contract award to BAE Systems Land & Armaments, L.P. The vehicle was developed to the Capability Development Document, which was approved 21 June 2013 and revised 24 October 2016. The DAE issued an ADM 26 September 2017 that approved revising the acquisition documentation tailoring plan, revising Milestone C entrance criteria, and increasing the Low Rate Initial Production (LRIP) quantity to 551 vehicles (to recognize the Army's desire for early fielding of AMPVs for the European Deterrence Initiative). AMPV was re-designated as an ACAT IC program on 1 November 2017, with the Army Acquisition Executive (AAE) and as the Milestone Decision Authority. The Army convened an Army Systems Acquisition Review Council (ASARC) for Milestone C on December 20, 2018, and the AAE signed the ADM on January 25, 2019. As a result of vehicle delivery delays, the AAE approved a revised Acquisition Program Baseline to adjust the program schedule on January 7, 2021.

The Fiscal Year (FY) 2022 planned program primarily consisted of finalizing efforts associated with Production Qualification Testing (PQT), Initial Operational Test & Evaluation (IOT&E), Live Fire Test and Evaluation (LFT&E) and corrective action implementation resulting from test results. Prime contractor support was required

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army	Date: March 20	023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
2040: Research, Development, Test & Evaluation, Army I BA 5: System	PE 0605028A I Armored Multi-Purpose Vehicle (AMPV)	
Development & Demonstration (SDD)		

for testing and engineering to ensure adequate system support packages were available during the tests. Government test locations were used for the tests and government personnel were responsible for the overall management of the efforts.

B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	35.560	0.000	0.000	-	0.000
Current President's Budget	34.262	0.000	0.000	-	0.000
Total Adjustments	-1.298	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-1.298	-			
SBIR/STTR Transfer	-	-			

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2024 A	vrmy							Date: Mar	ch 2023	
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name)Project (NuPE 0605028A / Armored Multi-Purpose VehiEB5 / Armocle (AMPV)EB5 / Armo						mber/Name) red Multi-Purpose Vehicle				
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
EB5: Armored Multi-Purpose Vehicle	-	34.262	-	-	-	-	-	-	-	-	0.000	34.262
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Armored Multi-Purpose Vehicle (AMPV) is the materiel solution for replacement of the Army's Armored Personnel Carrier (M113) Family of Vehicles (FoV) within the Armored Brigade Combat Team (ABCT). It will mitigate current and future capability gaps in force protection, mobility, reliability, and interoperability across the Spectrum of Conflict. The AMPV will replace five mission roles currently performed by the M113 FoV by transferring the current M113 mission equipment packages to a new Military Vehicle Derivative platform. In total, the AMPV FoV will account for approximately 30% of the ABCT's tracked fleet and consists of the following five variants:

1. Mission Command (MCmd) Variant: This platform enables effective mission command planning and execution for both the Tactical Operations Center and Tactical Command Vehicle versions of the MCmd. It will host current Battle Command Systems, future replacements, and upgrades of hardware and software.

2. Medical Treatment (MT) Variant: This platform will provide a protected surgical environment, with adequate lighting and accessible medical equipment. It will provide a capability for immediate medical care for one patient by a medical crew of four.

3. Medical Evacuation (ME) Variant: This platform will conduct ambulance type activities and provide casualty evacuation for up to four litters or six ambulatory patients, with a crew of three medical attendants.

4. General Purpose (GP) Variant: This platform will operate throughout the battle space by conducting re-supply, maintenance, casualty evacuation, and other tasks within the formation.

5. Mortar Carrier (MC) Variant: This platform will provide immediate responsive fire support to conduct fast-paced offensive operations.

The AMPV program was initiated as an Acquisition Category (ACAT) ID program at Milestone B (MS B). The Defense Acquisition Executive signed the Acquisition Decision Memorandum (ADM) on 22 December 2014, authorizing entry into the Engineering and Development phase and approving contract award to BAE Systems Land & Armaments, L.P. The vehicle was developed to the Capability Development Document, which was approved 21 June 2013 and revised 24 October 2016. The DAE issued an ADM 26 September 2017 that approved revising the acquisition documentation tailoring plan, revising Milestone C entrance criteria, and increasing the Low Rate Initial Production (LRIP) quantity to 551 vehicles (to recognize the Army's desire for early fielding of AMPVs for the European Deterrence Initiative). AMPV was re-designated as an ACAT IC program on 1 November 2017, with the Army Acquisition Executive (AAE) and as the Milestone Decision Authority. The Army convened an Army Systems Acquisition Review Council (ASARC) for Milestone C on December 20, 2018, and the AAE signed the ADM on January 25, 2019. As a result of vehicle delivery delays, the AAE approved a revised Acquisition Program Baseline to adjust the program schedule on January 7, 2021.

The Fiscal Year (FY) 2022 planned program primarily consisted of finalizing efforts associated with Production Qualification Testing (PQT), Initial Operational Test & Evaluation (IOT&E), Live Fire Test and Evaluation (LFT&E) and corrective action implementation resulting from test results. Prime contractor support was required for testing and engineering to ensure adequate system support packages were available during the tests. Government test locations were used for the tests and

Exhibit R-2A, RDT&E Project Just	stification: PB	2024 Army							Date: Ma	rch 2023	
Appropriation/Budget Activity 2040 / 5				PE 06 cle (Al	05028A I Ar MPV)		Purpose Veh	i EB5 I Ari		-Purpose Ve	
government personnel were respo Functional Team (CFT).	onsible for the o	verall mana	gement of th	e efforts. Th	is program s	supports the	Next General	tion Comba	at Vehicle (N	IGCV) Cross	6
B. Accomplishments/Planned Pl	rograms (\$ in I	<u>/lillions)</u>						F	Y 2022	FY 2023	FY 2024
Title: Armored Multi-Purpose Veh	icle (AMPV) Pro	oduct Develo	pment						22.439	-	-
Description: AMPV Product Development (EMD) prime contract effort included: development engine system level fabrication and integre subcontractors/suppliers. Also incl EMD prime contractor. This element Up System Level (FUSL) live fire t	ct along with Go neering, system ation, software uded are all eff nt also included	overnment F engineering developmer orts perform	urnished Ma /program ma nt, support to ed by subco	iterial (GFM) anagement, the governr ntractors / si	. Significant prototype ha nent test pro uppliers who	examples of ardware proc ogram, and o are under c	prime contra urement, prof versight of ontract to the	ct totype AMPV			
Title: AMPV Government Program	n Management	Costs							3.196	-	-
Description: AMPV Government program. This included Systems E included, as well as travel and oth do not include Government Furnis Government test locations.	ingineering and er support costs	Program Mass that are rec	anagement. quired to effe	Government ectively mana	t and suppor age the prog	t Contractor ram. Costs i	salaries are n this categoi	у			
Title: Government Test Costs									8.627	-	-
Description: Government Test co included costs of the detailed plan costs necessary to acquire data do systems) were excluded from this system level test.	ning, conduct, s uring the condu	support, data ct of the Gov	a reduction, a vernment test	and reports f sts. The actu	rom such te al test article	sting. Also ir es (i.e., funct	cluded were ionally config				
				Accon	nplishment	s/Planned P	rograms Sul	ototals	34.262	-	-
C. Other Program Funding Sum	mary (\$ in Milli	<u>ons)</u>	EV 2024	EV 2024	EV 2024			· · · ·	i	Coot To	
Line Item	FY 2022	FY 2023	<u>FY 2024</u> Base	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> Total	FY 2025	FY 2026	FY 2027	FY 2028	<u>Cost To</u> Complete	Total Cost
• G80819: Armored Multi Purpose Vehicle (AMPV)	950.366	380.677	554.777	-	554.777	561.462	631.904	513.920		14,094.908	

Exhibit R-2A, RDT&E Project Just	tification: PB	2024 Army							Date: Ma	rch 2023	
Appropriation/Budget Activity					ogram Eler	•	,	Project (Number/Name)			
2040 / 5				PE 06 <i>cle (Al</i>		mored Multi-	Purpose Veł	ni EB5 I Arn	nored Multi-	Purpose Ve	hicle
C. Other Program Funding Summ	ary (\$ in Milli	ons <u>)</u>									
			<u>FY 2024</u>	FY 2024	<u>FY 2024</u>					Cost To	
Line Item	FY 2022	<u>FY 2023</u>	Base	000	<u>Total</u>	<u>FY 2025</u>	FY 2026	FY 2027	<u>FY 2028</u>	Complete	Total Cost
 G99911: PRODUCTION 	27.500	-	0.000	-	0.000	-	-	-	-	0.000	27.500
BASE SUPPORT FOR											
SPECIAL CONTINGENCIES											
Bemerke											

<u>Remarks</u>

D. Acquisition Strategy

The AMPV program was initiated at Milestone B (MS B). The 22 December 2014 MS B Acquisition Decision Memorandum (ADM) approved contract award for the Engineering and Manufacturing Development phase plus three Low Rate Initial Production (LRIP) options to BAE Systems Land & Armaments, L.P. on a competitive basis. The Army Acquisition Executive (AAE) approved the Milestone C ADM on January 25, 2019, authorizing Low Rate Initial Production. All three LRIP options have since been exercised. As a result of vehicle delivery delays, the AAE approved a revised Acquisition Program Baseline to adjust the program schedule on January 7, 2021.

Exhibit R-3, RDT&E								Date:	March 20	23					
Appropriation/Budge 2040 / 5	et Activity	/					ogram Ele 5028A / A IPV)	(Numbe rmored N	r/Name) Iulti-Purpo	se Vehic	le				
Product Developmer	nt (\$ in M	illions)		FY 2	2022	FY :	2023		2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Development Engineering	C/CPIF	BAE : Sterling Heights, MI	262.500	13.084	Dec 2021	-		-		-		-	0.000	275.584	-
Prototype Material Contractor	C/CPIF	BAE : Sterling Heights, MI	119.298	-		-		-		-		-	0.000	119.298	-
Prototype Material Government Furnished	Various	Various : .	27.673	-		-		-		-		-	0.000	27.673	-
Contractor System Engineering, Data, Test and Program Management	C/CPIF	BAE : Sterling Heights, MI	163.805	4.381	Dec 2021	-		-		-		-	0.000	168.186	-
Procurment of Live Fire Test Assets	Option/ FPIF	BAE : York, PA	50.650	-		-		-		-		-	0.000	50.650	_
Contractor Support to Qualification, Live Fire, & Operational Testing	C/CPIF	BAE : Sterling Heights, MI	56.138	4.974	Dec 2021	-		-		-		-	0.000	61.112	-
		Subtotal	680.064	22.439		-		-		-		-	0.000	702.503	N/A
Support (\$ in Million	s)		ſ	FY	2022	FY	2023		2024 Ise	FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	MIPR	PMO : Warren, MI	121.303	3.196	Dec 2021	-		-		-		-	0.000	124.499	-
	J.	Subtotal	121.303	3.196		-		-		-		-	0.000	124.499	N/A
Test and Evaluation	(\$ in Milli	ions)		FY	2022	FY	2023		2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government System Testing	MIPR	Various : .	153.144	8.627	Dec 2021	-		-		-		-	0.000	161.771	-
	·	Subtotal	153.144	8.627		-		-		-		-	0.000	161.771	N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2024 Army	y								Date:	March 20	23	
Appropriation/Budge 2040 / 5	et Activity	,	R-1 Program Element (Number/Name)Project (NuPE 0605028A / Armored Multi-Purpose VehiEB5 / Armocle (AMPV)Cle (AMPV)								(Number/Name) rmored Multi-Purpose Vehicle				
Test and Evaluation	(\$ in Milli	ons)		FY	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remarks Testing locations are as fo Proving Ground (EPG) = A (DPG) = Utah															
			Prior					FY	2024	FY 2	2024	FY 2024	Cost To	Total	Target Value of
			Years	FY 2	2022	FY 2	2023		ase		00	Total	Complete	Cost	Contract

Remarks

Exhibit R-4, RDT&E Schedule Profile: PE Appropriation/Budget Activity 040 / 5	5 2024 Anny			28A I Armo	nt (Number/Name) red Multi-Purpose Ve		Date: March 202 Number/Name) nored Multi-Purpos	
Event Name	FY 2022	FY 20)23 3 4 1	FY 2024	FY 2025 1 2 3 4 1	FY 2026	FY 2027 1 2 3 4	FY 2028
EMD Contract	1 Z 3 4	1 2 3	5 4 1	2 3 4		2 3 4	1 2 3 4	1 2 3 4
Production Qualification Testing								
Live Fire Test								
Initial Operational Test & Evaluation	_							
Full Rate Production Decision		4						
First Unit Equipped		2						
Initial Operational Capability		3						

hibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Mar	ch 2023
propriation/Budget Activity 40 / 5		Element (Number I Armored Multi-P		Project (Number/Nar EB5 / Armored Multi-H	
	Schedule Detail	S			
		Sta	art	E	nd
Events		Quarter	Year	Quarter	Year
Milestone B Decision		1	2015	1	2015
EMD Contract		1	2015	4	2022
Preliminary Design Review		3	2015	3	2015
Critical Design Review		3	2016	3	2016
Production Prove Out Test		4	2017	4	2018
Limited User Test		4	2018	1	2019
Milestone C		2	2019	2	2019
Low Rate Initial Production 1		2	2019	2	2019
Production Qualification Testing		1	2021	3	2022
Live Fire Test		2	2021	2	2022
Initial Operational Test & Evaluation		2	2022	3	2022
Full Rate Production Decision		1	2023	1	2023
First Unit Equipped		2	2023	2	2023
Initial Operational Capability		2	2023	2	2023

Exhibit R-2, RDT&E Budget Iten	n Justificat	i on: PB 202	24 Army							Date: Marc	ch 2023	
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)						am Element 30A / Joint T	(JTNC)					
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	-	15.752	17.936	18.662	-	18.662	6.178	6.313	6.352	6.423	Continuing	Continuing
EA8: Joint Tactical Networking Center	-	15.752	17.936	18.662	-	18.662	6.178	6.313	6.352	6.423	Continuing	Continuing

Note

Joint Tactical Networking Center (JTNC) is funded using a Joint budget strategy. Each Military Department (MILDEP) budgets for one-third of the total program Research Development Test & Evaluation (RDT&E) requirements for joint efforts. Fiscal Year (FY) 2022 through FY 2024 funding reflects the full Army JTNC requirement with the consolidated funding from Air Force and Navy. FY 2025 and beyond reflects the Army one-third portion of total program RDT&E funds. Out-year funding is programmed in PE 0605030A by the Army, PE 0605030N by the Navy and PE 0605030F by the Air Force. Prior to submission of the President's Budget, the funding is consolidated in Army PE 0605030A for execution.

A. Mission Description and Budget Item Justification

This funding line supports the Army Network Modernization Strategy line of effort (LOE) 1, Unified Network. Efforts are directly aligned to the Army Network Modernization Priority.

The Joint Tactical Networking Center (JTNC) is chartered to enable the Department of Defense (DoD)'s rapid identification, characterization, procurement, fielding, and sustainment of modular, innovative tactical communications products that ensure secure, interoperable, and resilient Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities. The JTNC provides technical expertise to facilitate tactical communications management, innovation, and standardization. The JTNC: (1) maintains a cyber-hardened DoD Information Repository (IR), (2) provides Technical Analyses/Capability Characterizations on tactical communications products, (3) provides Open Systems Architecture Standards, (4) provides exportability analysis and licensing reviews, and (5) serves as Technical Advisor to the Communications, Command, and Control Leadership Board (C3LB) and Tactical Communications Senior Steering Group (TCSSG).

JTNC mission is executed in coordination with key government stakeholders to include: C3LB, TCSSG, Communications Technologies and Waveforms Working Group (CTWWG), Resiliency Sub-Working Group (RSWG), the Department of Defense (DoD) Chief Information Officer (CIO), Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)), Joint Staff J6 (JS J6), the Under Secretary of Defense for Research and Engineering USD(R&E), and the Services. Particular attention is paid to ensuring that interagency work is collaborative and eliminates duplicative capability. The JTNC enables a common software baseline that is hardware agnostic leading to increased competition for Software Defined Radios (SDR).

Current JTNC directed requirements, outlined by the C3LB, consist of the CTWWG, Joint All-Domain Command and Control (JADC2) support, development/maturation of the DoD IR framework & Cloud migration, and development of the Joint Communications Marketplace (JCM) to meet DoD and Industry requirements in conjunction with DoD Instruction 4630.09. Through collaboration with USD R&E (INSS) and industry partners, JTNC is in the process of capturing information on resilient waveform technologies and portfolio products. The ultimate goal is to expedite market research activities by collecting, analyzing, and making data available in support of emerging

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 A	rmy			Date:	March 2023
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA	5: System	-	ement (Number/Name loint Tactical Network C	•	
Development & Demonstration (SDD) Government waveform acquisitions. The JTNC and Joint Inf Working Group (HF I&A SWG) to resolve HF 3G and 4G int new tactical MIL-STD to provide more resilient communicati such as software defined radios ported with specific wavefo such as the Interface Control Working Group (ICWG) and he of Standards (CMOSS) specifications. Finally, the JTNC cor processes.	eroperability issues ons. Additionally, th rms to support Nationals as been collaboration	, thus facilitating ne JTNC is engag onal Security Age ng with the Army	next-generation HF sys led in the analysis of so ency (NSA) efforts. The on the development of	tems. The JTNC HF tea ftware artifacts involvin JTNC participates in Si C4ISR/Electronic Warfa	am is also pathfinding for a g high assurance devices, tandards-related activities are Modular Open Suite
B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	16.350	17.950	6.195	-	6.195
Current President's Budget	15.752	17.936	18.662	-	18.662
Total Adjustments	-0.598	-0.014	12.467	-	12.467
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-0.598	-			
 SBIR/STTR Transfer 	-	-			
 Adjustments to Budget Years 	-	-	12.467	-	12.467

-0.014

Change Summary Explanation

• FFRDC Transfer

FY24 increase represents consolidated, Joint-program funding provided by Army (065030A), Navy (0605030N) and Air Force (0605030F).

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Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2024 A	rmy							Date: Marc	ch 2023	
Appropriation/Budget Activity 2040 / 5					-	am Elemen 30A / Joint 7	umber/Name) t Tactical Networking Center					
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
EA8: Joint Tactical Networking Center	-	15.752	17.936	18.662	-	18.662	6.178	6.313	6.352	6.423	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Joint Tactical Networking Center (JTNC) is funded using a Joint budget strategy. Each Military Department (MILDEP) budgets for one-third of the total program Research Development Test & Evaluation (RDT&E) requirements for joint efforts. Fiscal Year (FY) 2022 through FY 2024 funding reflects the full Army JTNC requirement with the consolidated funding from Air Force and Navy. FY 2025 and beyond reflects the Army one-third portion of total program RDT&E funds. Out-year funding is programmed in PE 0605030A by the Army, PE 0605030N by the Navy and PE 0605030F by the Air Force. Prior to submission of the President's Budget, the funding is consolidated in Army PE 0605030A for execution.

A. Mission Description and Budget Item Justification

The Joint Tactical Networking Center (JTNC) is chartered to enable the Department of Defense (DoD)'s rapid identification, characterization, procurement, fielding, and sustainment of modular, innovative tactical communications products that ensure secure, interoperable, and resilient Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities. The JTNC provides technical expertise to facilitate tactical communications management, innovation, and standardization. The JTNC: (1) maintains a cyber-hardened DoD Information Repository (IR), (2) provides Technical Analyses/Capability Characterizations on tactical communications products, (3) provides Open Systems Architecture Standards, (4) provides exportability analysis and licensing reviews, and (5) serves as Technical Advisor to the Communications, Command, and Control Leadership Board (C3LB) and Tactical Communications Senior Steering Group (TCSSG).

JTNC mission is executed in coordination with key government stakeholders to include: C3LB, TCSSG, Communications Technologies and Waveforms Working Group (CTWWG), Resiliency Sub-Working Group (RSWG), the Department of Defense (DoD) Chief Information Officer (CIO), Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)), Joint Staff J6 (JS J6), the Under Secretary of Defense for Research and Engineering, USD(R&E), and the Services. Particular attention is paid to ensuring that interagency work is collaborative and eliminates duplicative capability. The JTNC enables a common software baseline that is hardware agnostic leading to increased competition for Software Defined Radios (SDR).

Current JTNC directed requirements, outlined by the C3LB, consist of the CTWWG, Joint All-Domain Command and Control (JADC2) support, development/maturation of the DoD IR framework & Cloud migration, and development of the Joint Communications Marketplace (JCM) to meet DoD and Industry requirements in conjunction with DoD Instruction 4630.09. Through collaboration with USD R&E (INSS) and industry partners, JTNC is in the process of capturing information on resilient waveform technologies and portfolio products. The ultimate goal is to expedite market research activities by collecting, analyzing, and making data available in support of emerging Government waveform acquisitions. The JTNC and Joint Interoperability Test Command (JITC) co-chair the High-Frequency Interoperability and Architecture Sub-Working Group (HF I&A SWG) to resolve HF 3G and 4G interoperability issues, thus facilitating next-generation HF systems. The JTNC HF team is also pathfinding for a new tactical MIL-STD to provide more resilient communications. Additionally, the JTNC is engaged in the analysis of software artifacts involving high assurance devices,

Appropriation/Budget Activity 2040 / 5	PE 0605030A / Joint Tactical Network Cente E r (JTNC)		Networking	
such as software defined radios ported with specific waveforms to support such as the Interface Control Working Group (ICWG) and has been collab of Standards (CMOSS) specifications. Finally, the JTNC continues evolvin processes.	orating with the Army on the development of C4ISR/	Electronic Warfare	e Modular Op	en Suite
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<i>Title:</i> DoD Waveform IR Support, Waveform Standards Evolution and Con	npliance & Certification Analysis	15.752	17.281	18.662
Description: Joint Tactical Networking Center (JTNC) aligns with the Com (C3LB), DoD Chief Information Officer (CIO), Joint Staff, the Services, and processes that ensure secure, interoperable, and resilient tactical communi- facilitate tactical communications management, innovation, and standardiz Information Repository (IR), (2) provides Technical Analyses/Capability Ch (3) provides Open Systems Architecture Standards, (4) provides exportabil Technical Advisor to the Communications, Command, and Control Leaders Steering Group (TCSSG). The Joint Tactical Networking Center supports t Effort 1A - Unified Network.	other key stakeholders for those JTNC chartered ications. The JTNC provides technical expertise to ation. The JTNC: (1) maintains a cyber-hardened Do aracterizations on tactical communications products lity analysis and licensing reviews, and (5) serves as ship Board (C3LB) and Tactical Communications Se	DD ,		
<i>FY 2023 Plans:</i> JTNC will continue to serve as Chair of the Communications Waveforms a both TCSSG and C3LB efforts towards managing Joint warfighter challeng will continue technical analysis efforts for C3LB approved waveforms, in ad Management Plan. The JTNC will continue to support both the Services ar Lead Service activities as Technical Advisor, assisting in the identification at The JTNC will remain engaged in Joint All Domain Command and Control engineering support across the Services. The JTNC, through the efforts of coordinate and socialize resiliency terminology, processes, and support reproducts most capable of mitigating adversary detection, interception, geol managing and maintaining the DoD Information Repository (IR), providing waveforms and associated tactical communications products. The JTNC w	es and fielding tactical communications solutions. J coordance with Service priorities and the FY 2023 JT and Principal Staff Assistant (DoD CIO) in oversight of and resolution of cross-service networking disconner (JADC2) Operational Planning Teams/ systems the CTWWG's Resiliency Sub-Working Group, will sources to design, test, compare, and field tactical ra ocation, and jamming threats. The JTNC will continu controlled access for proprietary and nonproprietary	ΓΝC · · · · · · · · · · · · · · · · · · ·		
The JTNC will continue Joint Communications Marketplace (JCM) develop conjunction with DoD Instruction 4630.09. The JTNC will manage evolutio environment tools, enabling Government and Industry to share information leading to rapid acquisition efforts to meet warfighter needs. JCM capabilit	n of the JCM to provide value-added collaborative on innovative technologies and DoD capability gaps			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army

Date: March 2023

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605030A / Joint Tactical Network Cente r (JTNC)	-	(Number/I bint Tactica		Center
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024
Network Cross-Functional Team (N-CFT) requirements for Industry e and follow-on contract efforts. The JTNC will continue development characterizations for commercial off-the-shelf (COTS) and non-devel JTNC will continue to evolve DoD Waveform Standards to facilitate of product development time and facilitating faster delivery of capabilitie Spectrum activities and facilitate deployment of the Modular Radio A export requests and analyses of products for exportability.	of tactical communications vendor product capability lopmental item (NDI) tactical communication products. Th common development, interoperability and re-use, reduci es to warfighters. Focused efforts will leverage emerging	ne ng			
FY 2024 Plans: JTNC will continue to serve as Chair of the Communications Wavefor both TCSSG and C3LB efforts towards managing Joint warfighter ch will continue technical analysis efforts for C3LB approved waveforms Management Plan. The JTNC will continue to support both the Servic Lead Service activities as Technical Advisor, assisting in the identific The JTNC will remain engaged in Joint All Domain Command and Ca engineering support across the Services. The JTNC, through the effo coordinate and socialize resiliency terminology, processes, and supp products most capable of mitigating adversary detection, interception managing and maintaining the DoD Information Repository (IR), prov waveforms and associated tactical communications products. The JT compliance and Cloud migration.	allenges and fielding tactical communications solutions. s, in accordance with Service priorities and the FY 2024 ces and Principal Staff Assistant (DoD CIO) in oversight action and resolution of cross-service networking disconn ontrol (JADC2) Operational Planning Teams/ systems orts of the CTWWG's Resiliency Sub-Working Group, wil port resources to design, test, compare, and field tactical n, geolocation, and jamming threats. The JTNC will continviding controlled access for proprietary and nonproprietar	JTNC JTNC of ects. I radio nue Y			
The JTNC will continue Joint Communications Marketplace (JCM) de conjunction with DoD Instruction 4630.09. The JTNC will manage exervironment tools, enabling Government and Industry to share inform leading to rapid acquisition efforts to meet warfighter needs. JCM can and Network Cross-Functional Team (N-CFT) requirements for Indus whitepaper submission and evaluation, and contract efforts. The JTN vendor product capability characterizations for commercial off-the-sh communication products. The JTNC will continue to evolve DoD Way interoperability and re-use, reducing product development time and f Focused efforts will leverage emerging Spectrum activities and facilit Finally, the JTNC will continue to support export requests and analyse EX 2022 to EX 2024 Increase/Decrease Statement:	volution of the JCM to provide value-added collaborative mation on innovative technologies and DoD capability ga pabilities/communities will continue to support PEO C3T stry engagement, Technical Exchange Meetings (TEMs), NC will continue development of tactical communications telf (COTS) and non-developmental item (NDI) tactical veform Standards to facilitate common development, facilitating faster delivery of capabilities to warfighters. tate deployment of the Modular Radio Architecture (MRA				
leading to rapid acquisition efforts to meet warfighter needs. JCM car and Network Cross-Functional Team (N-CFT) requirements for Indus whitepaper submission and evaluation, and contract efforts. The JTH vendor product capability characterizations for commercial off-the-sh communication products. The JTNC will continue to evolve DoD Way interoperability and re-use, reducing product development time and f Focused efforts will leverage emerging Spectrum activities and facilit	pabilities/communities will continue to support PEO C3T stry engagement, Technical Exchange Meetings (TEMs), NC will continue development of tactical communications lef (COTS) and non-developmental item (NDI) tactical veform Standards to facilitate common development, facilitating faster delivery of capabilities to warfighters. tate deployment of the Modular Radio Architecture (MRA				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name)ProjePE 0605030A / Joint Tactical Network CenteEA8 /r (JTNC)	ct (Number/I Joint Tactica		Center
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
FY24 increase reflects planned lifecycle efforts.				
Title: SBIR/STTR Transfer		-	0.655	-
Description: Funding transferred in accordance with Title 15 USC §638.				
FY 2023 Plans: Funding transferred in accordance with Title 15 USC §638				
FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC §638.				
	Accomplishments/Planned Programs Subtotals	15.752	17.936	18.662

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

N/A

<u>Remarks</u>

JTNC operates based on a Joint Funding Strategy, there is no prior year funding for JTNC in the other Service lines. Prior to the year of execution, the JTNC funding is consolidated in Army PE 0605030A for execution.

D. Acquisition Strategy

The Joint Tactical Networking Center (JTNC) is a Joint support program to the Services, the DoD Chief Information Officer (CIO), the Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)), and USD Research and Engineering (USD(R&E)). JTNC core functions as defined in the JTNC Acquisition Decision Memorandum and Charter signed on 20 January 2014 and revalidated on 13 September 2019 include execution in the following areas: Information Repository, Technical Analysis, Open Systems Architecture Standards, Exportability Analysis and Licensing Review, and Technical Advisor to the C3LB. The services derived from these core functions reinforce an acquisition environment which ensures that interoperable, secure, and resilient joint tactical waveforms and wireless communications applications can operate in a variety of hardware transport solutions.

The FY 2024 Budget supports continued development/maturation of the DoD IR, analysis of directed software and artifacts, support of the National Security Agency (NSA) Commercial Communications Security (COMSEC) Evaluation Program (CCEP), JTNC Standards Interface Control Working Group (ICWG), the Capabilities Characterization and Joint Communications Marketplace (CC & JCM). The FY 2024 budget supports the Lead Service Initiative where JTNC will serve as a technical advisor and source of engineering and analytic resources in the conduct of Joint enterprise-level systems engineering and analysis and support DoD CIO. The FY 2024 budget supports the continued management of Joint warfighter challenges and solutions as assigned by the TCSSG. The FY 2024 budget supports Modular Radio Architecture (MRA) work, where JTNC will lead development and promulgation of a framework containing a collection of DoD standards and a description or architecture of how to use these to compose or control a communications system. The MRA defines how to implement a communications system or radio on select platforms.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	ý								Date:	March 20	023		
Appropriation/Budg 2040 / 5	et Activity	/					5030A / J		lumber/Na ical Netwo	Project (Number/Name) EA8 I Joint Tactical Networking Center					
Management Servic	es (\$ in M	illions)		FY	2022	FY 2023		FY 2024 Base		FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	Various	Multiple Contract Awards : Various	7.452	0.180	Oct 2021	0.195	Oct 2022	0.197	Oct 2023	-		0.197	Continuing	Continuing	Continuing
Program Management Support	C/CPFF	G2 Software Systems : San Diego, CA	4.678	0.490	Nov 2021	0.617	Oct 2022	0.656	Oct 2023	-		0.656	Continuing	Continuing	Continuing
Program Management Support	MIPR	NIWC PACIFIC : San Diego, CA	1.115	0.391	Dec 2021	0.375	Nov 2022	0.379	Nov 2023	-		0.379	Continuing	Continuing	Continuing
		Subtotal	13.245	1.061		1.187		1.232		-		1.232	Continuing	Continuing	N/A
Product Developme	nt (\$ in M	illions)	ſ	FY 2	2022	FY 2	2023		2024 ase	FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
JTNC Product Development Support	MIPR	NIWC PACIFIC : San Diego, CA	5.583	0.517	Oct 2021	0.928	Oct 2022	0.937	Oct 2023	-		0.937	Continuing	Continuing	Continuing
JTNC Product Development Support	C/CPFF	G2 Software Systems : San Diego, CA	16.886	2.940	Nov 2021	2.665	Oct 2022	3.540	Oct 2023	-		3.540	Continuing	Continuing	Continuing
JTNC Product Development Support	MIPR	NIWC ATLANTIC : Charleston, SC	6.108	2.960	Oct 2021	1.181	Dec 2022	1.192	Dec 2023	-		1.192	Continuing	Continuing	Continuing
JTNC Product Development Support	C/CPFF	NIWC ATLANTIC JCM (SRC) : Atlanta, GA	-	0.439	Oct 2021	1.820	Nov 2022	1.837	Nov 2023	-		1.837	Continuing	Continuing	Continuing
		Subtotal	28.577	6.856		6.594		7.506		-		7.506	Continuing	Continuing	N/A
Support (\$ in Millior	ıs)		ſ	FY	2022	FY 2	2023		2024 ase	FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
JTNC Engineering/ Technical Support	C/CPFF	G2 Software Systems : San Diego, CA	7.682	0.779	Nov 2021	0.847	Oct 2022	0.983	Oct 2023	-		0.983	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Appropriation/Budg 2040 / 5	•			·			5030A / Jo	•	umber/Na ical Netwo	Project (Number/Name) EA8 / Joint Tactical Networking Center					
Support (\$ in Million	ıs)			FY 2022		FY 2023			2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
JTNC Engineering/ Technical Support	FFRDC	MITRE Corporation : McLean, VA	1.225	0.148	Oct 2021	0.246	Oct 2022	0.248	Oct 2023	-		0.248	Continuing	Continuing	Continuin
JTNC Engineering/ Technical Support	MIPR	Aberdeen Proving Grounds : Aberdeen, MD	4.259	0.766	Nov 2021	0.490	Dec 2022	0.495	Dec 2023	-		0.495	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	MIPR	NIWC PACIFIC : San Diego, CA	4.275	0.892	Oct 2021	1.277	Nov 2022	1.289	Nov 2023	-		1.289	Continuing	Continuing	Continuing
		Subtotal	17.441	2.585		2.860		3.015		-		3.015	Continuing	Continuing	I N/A
Test and Evaluation	(\$ in Milli	ons)	ſ	FY 2	2022	FY 2	2023	FY 2 Ba	2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development/Test & Evaluation	MIPR	NIWC PACIFIC : San Diego, CA	11.207	1.910	Oct 2021	3.268	Nov 2022	2.638	Nov 2023	-		2.638	Continuing	Continuing	Continuing
Development/Test & Evaluation	C/CPFF	G2 Software Systems : San Diego, CA	15.455	3.003	Nov 2021	3.796	Oct 2022	4.038	Oct 2023	-		4.038	Continuing	Continuing	Continuing
Development/Test & Evaluation	C/CPFF	Multiple Awards : Various	2.173	0.337	Nov 2021	0.231	Nov 2022	0.233	Nov 2023	-		0.233	Continuing	Continuing	Continuing
		Subtotal	28.835	5.250		7.295		6.909		-		6.909	Continuing	Continuing	N/A
]						EV 2	2024	FY 2	024	FY 2024	Cost To	Total	Target Value of
			Prior Years	FY 2	2022	FY 2	2023		ise	00		Total	Complete	Cost	Contract

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 /	Army						Date: March 20	23
Appropriation/Budget Activity 2040 / 5			05030A I Joint 7	t (Number/Name Tactical Network (lumber/Name) t Tactical Networ	king Center
Event Name	FY 2022	FY 202	 FY 2024	FY 2025		Y 2026	FY 2027	FY 2028
Open Systems Architecture Standards Conformance Evaluation	JTNC Waveform and Wire	less Certification						
DoD Information Repository	JTNC Information Reposit	ory						
Evolve Waveform Standards	JTNC Standards							
Analyze Waveforms and Associated Artifacts	JTNC Analyses							
Joint Communications Marketplace (JCM) and Capabilities	JTNC Innovation							
Support to TCSSG and CTWWG activities	JTNC Joint Activities							
				1	1		1	

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: March 2023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 5	PE 0605030A / Joint Tactical Network Cente	EA8 / Joint	t Tactical Networking Center
	r (JTNC)		

Schedule Details

	St	art	End			
Events	Quarter	Year	Quarter	Year		
Open Systems Architecture Standards Conformance Evaluations	1	2020	4	2028		
DoD Information Repository	1	2020	4	2028		
Evolve Waveform Standards	1	2020	4	2028		
Analyze Waveforms and Associated Artifacts	1	2020	4	2028		
Joint Communications Marketplace (JCM) and Capabilities Characterization (CC)	1	2020	4	2028		
Support to TCSSG and CTWWG activities	1	2020	4	2028		

Exhibit R-2, RDT&E Budget Iten	n Justificat	i on: PB 202	24 Army							Date: Marc	ch 2023		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)					-	am Elemen 31A / Joint 7							
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base									
Total Program Element	-	27.849	30.150	30.328	-	30.328	26.281	26.269	26.533	26.829	Continuing	Continuing	
EF5: Joint Tactical Network (JTN)	-	9.644	10.714	10.240	-	10.240	4.222	4.226	4.272	4.319	Continuing	Continuing	
EX6: Waveforms	-	18.205	19.436	20.088	-	20.088	22.059	22.043	22.261	22.510	Continuing	Continuing	

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Network Modernization Priority.

EF5 project: This funding line is directly aligned to the Army Network Modernization Priority. This funding line supports the Army Network Modernization Strategy (LOE 1) and Unified Network and Joint Interoperability/Coalition Accessible (LOE 3). The Joint Enterprise Network Manager (JENM) software provides a single, converged network management tool allowing the Warfighter to plan, configure, load, and manage the Joint Services' Tactical Radios and their networks in the field - a capability not available in legacy planning systems. JENM funding supports several types of tactical radios, such as the Manpack and Rifleman, enabling them to utilize Mobile Ad Hoc Networking (MANET) and other waveforms to include: Mobile User Objective System (MUOS) waveform, Demand Assigned Multiple Access (DAMA) Satellite Communications (SATCOM), Integrated Waveform (IW), and Single Channel Ground and Airborne Radio System (SINCGARS) waveform. Using its Over-the-Air-Management (OTAM) functionality, JENM provides the Commander the ability to quickly reconfigure critical networks. JENM enhances the S6's ability to conduct Course of Action (COA) Analysis and the Military Decision Making Process (MDMP), providing commanders critical information regarding their ability to communicate.

FY 2024 funding will continue radio planner development efforts to design, engineer, integrate and test of planning and management capabilities for the Tactical Radio network in support of the Advanced Networking Waveform (ANWf). Continued development provides further integration of the Integrated Tactical Network (ITN) and Network Management of its emerging systems to enable Soldiers the ability to effectively manage the ITN. Radio planner development efforts will also support MUOS Waveform Planning Continuing System Improvements and rapid provisioning of MUOS end-user terminals.

Planning applications are deployed on, and critically tied to the Ruggedized Application Platform - Tactical Radios (RAP-TR) hardware from Division to the Company level.

EX6 project: Waveforms provides the transport technologies and capabilities necessary to support the overall connectivity of the Unified Network. Waveforms technology assessments, integration, and configuration management enable seamless updates and fluid communication between echelons of the Unified Network.

Waveforms delivers, maintains, and upgrades portable, interoperable, MANET waveforms, Advanced Networking Waveforms (ANWf), and network enterprise services in support of the Army's network modernization strategy.

Waveforms capabilities will remain agile to accommodate emerging warfighter needs by addressing the following:

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
2040: Research, Development, Test & Evaluation, Army I BA 5: System	PE 0605031A I Joint Tactical Network (JTN)	
Development & Demonstration (SDD)		

(1) Waveform (WF) analysis and system engineering activities for DoD as Lead Service Activity for Ground/Line of Sight (LoS) Waveforms (currently TSM, WREN, and SINCGARS) in accordance with DoD Instruction 4630.09, Communications Waveform Management and Standardization, 23 November 2020. (2) Development and/or integration efforts of Broadcast Waveforms (i.e. SINCGARS, WREN, ANWf) and Radio Services (i.e. enterprise Over The Air Management (eOTAM)) in support of Army Network modernization, and agile mission support initiatives. (3) Viability assessments of ANWf in support of the Integrated Tactical Network (ITN) and future capability sets to ensure waveform performance in advance of formal ITN experimentation and fielding activities.

FY 2024 RDT&E dollars will fund the continued development, integration, and testing of new capabilities and waveform enhancements for SINCGARS, WREN, TSM, and ANWf. As well as fund the next generation Government developed waveforms and Radio Service applications, system and architectural engineering for ANWf radio communications technologies, post deployment software support for fielded versions of the waveforms and radio services, program management support, and examine modular and open system architectures (MOSA) to for future integration and waveform porting efficiencies.

B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	28.905	30.169	24.697	-	24.697
Current President's Budget	27.849	30.150	30.328	-	30.328
Total Adjustments	-1.056	-0.019	5.631	-	5.631
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-1.056	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	5.631	-	5.631
FFRDC Transfer	-	-0.019	-	-	-

Change Summary Explanation

Increase in FY 2024 funding request from Previous President's Budget to Current President's Budget to support further development efforts of Joint Tactical Network (JTN).

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2024 A	vrmy					Date: Marc	ch 2023			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name)Project (NPE 0605031A / Joint Tactical Network (JTN)EF5 / Joint					Number/Name) nt Tactical Network (JTN)						
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 FY 2024					Cost To Complete	Total Cost
EF5: Joint Tactical Network (JTN)	-	9.644	10.714	10.240	-	10.240	4.222	4.226	4.272	4.319	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

<u>Note</u>

JENM 655031EF5 funding is aligned with the Joint Service Agreement established with the Army, Navy and Air Force. Since contributions from other Services are received annually, \$10,240K reflects the Army, Navy and Air Force funding in FY24, while FY25 and out reflects only the Army funding.

A. Mission Description and Budget Item Justification

EF5 project: This funding line is directly aligned to the Army Network Modernization Priority. This funding line supports the Army Network Modernization Strategy (LOE 1) and Unified Network and Joint Interoperability/Coalition Accessible (LOE 3).

The Joint Enterprise Network Manager (JENM) software provides a single, converged network management tool allowing the Warfighter to plan, configure, load, and manage the Joint Services' Tactical Radios and their networks in the field - a capability not available in legacy planning systems. JENM funding supports several types of tactical radios, such as the Manpack and Rifleman, enabling them to utilize Mobile Ad Hoc Networking (MANET) and other waveforms to include: Mobile User Objective System (MUOS) waveform, Demand Assigned Multiple Access (DAMA) Satellite Communications (SATCOM), Integrated Waveform (IW), and Single Channel Ground and Airborne Radio System (SINCGARS) waveform. Using its Over-the-Air-Management (OTAM) functionality, JENM provides the Commander the ability to quickly reconfigure critical networks. JENM enhances the S6's ability to conduct Course of Action (COA) Analysis and the Military Decision Making Process (MDMP), providing commanders critical information regarding their ability to communicate.

FY 2024 funding will continue radio planner development efforts to design, engineer, integrate and test of planning and management capabilities for the Tactical Radio network in support of the Advanced Networking Waveform (ANWf). Continued development provides further integration of the Integrated Tactical Network (ITN) and Network Management of its emerging systems to enable Soldiers the ability to effectively manage the ITN. Radio planner development efforts will also support MUOS Waveform Planning Continuing System Improvements and rapid provisioning of MUOS end-user terminals.

Planning applications are deployed on, and critically tied to the Ruggedized Application Platform - Tactical Radios (RAP-TR) hardware from Division to the Company level.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: JENM Program Office Support	2.608	3.280	3.028
Description: Program Management Office support in the development of the JENM software.			
FY 2023 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/N		
2040 / 5	PE 0605031A / Joint Tactical Network (JTN)	EF5 / Joint Tactical	Network (J11	V)
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
The JENM program office will continue to support the expansion of JENM desig and management capabilities for the Tactical Radio Network in support of Joint and Contractor support. The JENM program office supports the vision of integra capabilities to enable Soldiers to manage their entire consolidated tactical netw by Sailors, Marines, and Airmen. Program office funding will also support comp and rapid provisioning of MUOS end-user terminals and expansion for deploym	Service requirements through the use of Matr ating lower and mid-tier Network Management ork in conjunction with network elements man letion of MUOS waveform planning simplificat	ix aged		
FY 2024 Plans: The JENM program office will continue to support the expansion of JENM design and management capabilities for the Tactical Radio Network in support of Joint and Contractor support. The JENM program office supports the vision of integra capabilities to enable Soldiers to manage their entire consolidated tactical netw by Sailors, Marines, and Airmen. Program office funding will also support comp and rapid provisioning of MUOS end-user terminals and expansion for deploym	Service requirements through the use of Matr ating lower and mid-tier Network Management ork in conjunction with network elements man letion of MUOS waveform planning simplificat	ix aged		
FY 2023 to FY 2024 Increase/Decrease Statement: JENM PMO reduced from FY23 to FY24 as the result of reduced contract costs	s for PMO activities.			
<i>Title:</i> JENM Development		7.036	7.043	7.212
Description: JENM provides consolidated communications planning, network of fault management, security management, and network health and status report wireless network comprised of SW defined network waveforms. JENM interface planning systems, network planning systems, key management systems, and s mission essential system. JENM is also considered a critical element within the (RAP-TR) hardware configuration management tool kit.	ing needed to establish and maintain a mobile es with other external network managers, miss spectrum planning systems. JENM is considered	ion ed a		
FY 2023 Plans: Development funding will continue design, engineering, integration and test of p Tactical Radio network. Support to align with Army Network Modernization to p tier Network Management for Integrated Tactical Network (ITN) to enable Soldi- tactical network in conjunction with network elements managed by Sailors, Mar support completion of MUOS waveform planning simplification and rapid provis requirements.	rovide further integration of the lower and mid- ers the ability to manage the entire consolidate ines, and Airmen. Development funding will al	ed so		
JENM planning applications are deployed on, and critically tied to the RAP-TR FY 2024 Plans:	hardware from Division to the Company level.			

Exhibit R-2A, RDT&E Project Just	stification: PB	2024 Army							Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5						nent (Numb int Tactical N			t (Number/N Joint Tactical	lame) Network (JT	N)
B. Accomplishments/Planned Pl	ograms (\$ in N	<u>/lillions)</u>						Γ	FY 2022	FY 2023	FY 2024
Development funding will continue Tactical Radio network. Support to tier Network Management for Integ tactical network in conjunction with support completion of MUOS wave requirements.	align with Arm grated Tactical I n network eleme	y Network M Network (ITN ents manage	lodernizatior N) to enable ed by Sailors	n to provide f Soldiers the , Marines, ar	urther integr ability to mand Airmen.	ration of the anage the en Development	lower and m tire consolid funding will	id- ated also			
JENM planning applications are de	eployed on, and	l critically tie	d to the RAF	P-TR hardwa	re from Divis	sion to the C	ompany leve	əl.			
FY 2023 to FY 2024 Increase/De Funding increase reflects planned											
Title: SBIR/STTR Transfer									-	0.391	-
Description: Funding transferred	in accordance v	with Title 15	USC §638								
FY 2023 Plans: Funding transferred in accordance	with Title 15 U	SC §638									
FY 2023 to FY 2024 Increase/De Funding transferred in accordance											
				Accon	nplishment	s/Planned P	rograms Su	ıbtotals	9.644	10.714	10.240
C. Other Program Funding Sum	nary (\$ in Milli	ons <u>)</u>									
Line Item • B99318: Joint Network Management System	FY 2022 0.930	<u>FY 2023</u> 1.967	<u>FY 2024</u> <u>Base</u> 1.987	<u>FY 2024</u> <u>OCO</u> -	FY 2024 <u>Total</u> 1.987	<u>FY 2025</u> 2.066	<u>FY 2026</u> 2.075	<u>FY 202</u> 2.07		Cost To 8 Complete 6 Continuing	Total Cos
Remarks PE 0605031A contains only the J in total using Joint contributions to Each Military Department (MILDE in PE 0605031A by the Army, PE hardware from Division to the Cor B99318)	the Army budg P) budgets for a 0605031N by tl	et shown he approximate ne Navy and	ere. The Join ly one-third o I PE 060503	t contribution of the total pi 1F by the Air	ns are provid rogram RDT r Force. JEN	ded in the ye &E requirem	ar of execution in the for join aline planning	on and n t efforts. (g applicat	ot reflected in Dut-year functions are dep	n the Army's i ding is progra loyed on the	request. mmed RAP-TR

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 5	PE 0605031A / Joint Tactical Network (JTN)	EF5 / Joint	t Tactical Network (JTN)

D. Acquisition Strategy

Product Manager Tactical Cyber & Network Operations (TCNO) manages a Government Owned, Government Operated (GOGO) Software Development & Integration Facility which employs competitive contracting strategies for software development & sustainment of the network manager components to ensure warfighter access to the best technology and innovative capabilities while addressing emerging threats and future requirements via an affordable, operationally effective, and timely framework.

The Army will continue a radio planner effort that will plan, manage, and provision capabilities for simplified workflow based planning solutions to rapidly meet emerging capability requirements.

JENM will support continuing system improvements for JENM v3.5.X development, which includes upgrades of MUOS, upgrades to JENM Public Key Infrastructure (PKI) certificate management, and cyber enhancements.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2024 Army	,								Date:	March 20)23	
Appropriation/Budg 2040 / 5	et Activity	1				R-1 Program Element (Number/Name)Project (Number/Name)PE 0605031A / Joint Tactical Network (JTN)EF5 / Joint Tactical Network								rk (JTN)	
Management Servic	es (\$ in M	illions)		FY 2022		FY 2023		FY 2024 Base		FY 2 OC					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
JENM Program Management Support	MIPR	Various : Various	9.877	2.608	Oct 2021	3.671	Oct 2022	3.028	Oct 2023	-		3.028	Continuing	Continuing	Continuing
		Subtotal	9.877	2.608		3.671		3.028		-		3.028	Continuing	Continuing	N/A
Product Developme	nt (\$ in Mi	illions)		FY	2022	FY 2	2023		2024 ase	FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
JENM NMRIL Development CIT II	MIPR	NM RIL : San Diego, CA	6.399	3.050	Dec 2021	2.685	Dec 2022	1.117	Dec 2023	-		1.117	Continuing	Continuing	Continuing
JENM NMRIL Development	MIPR	NMRIL : San Diego, CA	22.221	1.956	Oct 2021	1.111	Oct 2022	1.945	Oct 2023	-		1.945	Continuing	Continuing	Continuing
JENM NMRIL Development SSA	MIPR	NMRIL : San Diego, CA	8.058	2.030	Jan 2022	3.247	May 2023	0.650	May 2024	-		0.650	Continuing	Continuing	Continuing
Next Gen Radio Planner Development	MIPR	L3 Harris : Rochester, New York	-	-		-		3.500	May 2024	-		3.500	Continuing	Continuing	Continuing
		Subtotal	36.678	7.036		7.043		7.212		-		7.212	Continuing	Continuing	N/A
			Prior Years	FY	2022	FY	2023		2024 ase	FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
			46.555	9.644		10.714		10.240		-		10.240	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024	4 Army						Date: March 20	23
Appropriation/Budget Activity 2040 / 5					nt (Number/Name Tactical Network (Number/Name) It Tactical Networl	k (JTN)
		I_						
Event Name	FY 2022	FY 202		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
JENM v3.5 Continuing System Improvements				2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
JENM v3.5.x Continuing System Improvements	JENM v3.5 Continuing Sys			ntinuing System Impro				
JENM v3.4 Logistics and Training Support	JENM v3.4 Logistics and 1							
JENM v3.4 Sunset		JENM v3.4 Sunse	4					
JENM v3.5 Logistics and Training Support	JENM v3.5 Logistics and T							
JENM v3.5 Sunset						JEN	v3.5 Sunset	
APB Expiration						АРВ	Expiration	
Future Joint Software							Future Joint Software	
Future Contracts							Future Contracts	
						•	•	

hibit R-4A, RDT&E Schedule Details: PB 2024 Army	Date: Marc	ch 2023					
propriation/Budget Activity 40 / 5		R-1 Program Element (Number/Name) PE 0605031A <i>I Joint Tactical Network (JTN)</i>			Project (Number/Name) EF5 I Joint Tactical Network (JTN)		
	Schedule Details	5					
		Sta	art	E	nd		
Events		Quarter	Year	Quarter	Year		
JENM v3.5 Continuing System Improvements		2	2021	2	2023		
JENM v3.5.x Continuing System Improvements		3	2023	4	2026		
JENM v3.5 FQT		2	2020	2	2020		
Next Generation Planner v1.0		4	2018	4	2019		
Next Generation Planner v1.1		3	2019	4	2020		
MUOS MOT&E 1		4	2019	4	2019		
JENM v3.3.2 Sunset		4	2020	4	2020		
JENM v3.4 Logistics and Training Support		4	2019	1	2023		
JENM v3.4 Sunset		1	2023	1	2023		
JENM v3.5 Logistics and Training Support		4	2021	4	2026		
JENM v3.5 Sunset		4	2026	4	2026		
APB Expiration		4	2026	4	2026		
Future Joint Software		1	2027	1	2029		
Future Contracts		1	2027	1	2029		

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	rmy							Date: Marc	h 2023	
Appropriation/Budget Activity 2040 / 5									Project (Number/Name) EX6 / Waveforms			
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
EX6: Waveforms	-	18.205	19.436	20.088	-	20.088	22.059	22.043	22.261	22.510	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Network Modernization Priority.

This project provides the transport technologies necessary to support the overall connectivity of the Unified Network. Waveforms technology assessments, integration, and configuration management enable seamless updates and fluid communication between echelons of the Unified Network.

Waveforms delivers, maintains, and upgrades portable, interoperable, Mobile Ad-hoc Networking (MANET) waveforms, Advanced Networking Waveforms (ANWf), and network enterprise services in support of the ARMY network modernization strategy. These waveforms and services are deployed by technical insertion into production of Program of Record (PoR) radios and field upgrades to existing tactical radios.

Waveforms will remain agile to accommodate emerging warfighter needs by addressing the following:

1) Waveform (WF) analysis and system engineering activities for DoD as Lead Service Activity for Ground/Line of Sight (LoS) Waveforms (currently TSM), Warrior Robust Enhanced Network (WREN), and Single Channel Ground and Airborne Radio System (SINCGARS)) in accordance with (IAW) Deputy Secretary of Defense memo for Enhancing DoD's Joint Tactical Networks and Datalink Modernization, 29 March 2019

2) Development and/or integration efforts of Broadcast Waveforms (i.e. SINCGARS, WREN, ANWf) and Radio Services (i.e. enterprise Over The Air Management (eOTAM)) in support of Army Network modernization, and agile mission support initiatives

3) Viability assessments of ANWf in support of the Integrated Tactical Network (ITN) and future capability sets to ensure waveform performance in advance of formal ITN experimentation and fielding activities

FY 2024 RDT&E dollars will fund the continued development, integration, and testing of new capabilities and waveform enhancements for SINCGARS, WREN, TSM, and ANWf. Additionally, funding supports the next generation Government developed waveforms and Radio Service applications, system and architectural engineering for ANWf radio communications technologies, post deployment software support for fielded versions of the waveforms and radio services, program management support, and examine modular and open system architectures (MOSA) to make future integration and waveform porting more efficient.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Program Management Office Support	2.979	2.732	2.968
Description: Waveform matrix and contractor support, including technical, logistics, and business staff oversight			
FY 2023 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605031A / Joint Tactical Network (JTN)	Project (Number/N EX6 / Waveforms		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Continue Program Management support for PdM Waveforms, inclue support for Waveforms engineering development, testing, and program		actor		
FY 2024 Plans: Program Management support for PdM Waveforms. Funding will prengineering development, testing, and program oversight.	ovide for matrix and contractor support for Waveforms			
FY 2023 to FY 2024 Increase/Decrease Statement: Increase due to an expected increase in matrix and contractor supp replacement effort and annual inflation.	port for the Next Generation Waveform/SINCGARS			
Title: Waveforms Software Development		8.940	10.009	10.528
 Description: PdM Waveforms provides software development and networking requirements for the following: 1) Single Channel Ground and Airborne Radio System (SINCGARS adversary's near, mid, and far-term Electronic Attack/Electronic Wa 2) Warrior Robust Enhanced Network (WREN) Waveform will enhance unified transport to Army tactical networks. 3) Radio Services (i.e. enterprise Over The Air Management (eOTA mission support initiatives. 	6) - Develop NexGen SINCGARS waveform to combat the rfare (EA/EW) capabilities nce range, scalability, and Electronic Protection (EP) for a			
FY 2023 Plans: Funding will support the requirement and initial design development hardening the capability in support of the ITN and CS25. Support w (CEMA) threats for SINCGARS and WREN, including Lead Service Management (eOTAM)).	ill include effort to alleviate Cyber Electro-Magnetic Activit			
FY 2024 Plans: Funding will support the requirement and initial design development the capability in support of the ITN and CS25, design and developm include effort to alleviate Cyber Electro-Magnetic Activities (CEMA)		will		
activities, and Radio Services (i.e. enterprise Over The Air Manager	ment (eOTAM)).			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	arch 2023	
Appropriation/Budget Activity 2040 / 5		roject (Number/N K6 / Waveforms	lame)	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Decrease due to maintenance software development work in FY24 wh eOTAM and WREN. Increased resources were allocated for eOTAM 2 Reductions, and Formal Qualification Testing (FQT) under test and eva	1 and WREN Release B Lab and Field Based Risk			
<i>Title:</i> Waveforms Test and Evaluation		3.973	3.697	4.273
Description: PdM Waveforms performs test and evaluation activities to Electronic Warfare (EW)/Cyber Electromagnetic Activities (CEMA), and assessments support inclusion and/or integration of technologies into A and Readiness Assessments including Technology Readiness Level (Technolicities in support of Integrated Tactical Network (ITN), performance architectures, operational use cases and fielding activities.	d readiness. Advanced Networking Waveforms (ANWf) Army experimentation and Capability Sets (CS's) Viability IRL) assessment, test and evaluation of EW and cyber			
FY 2023 Plans: Funding will validate continued design and system engineering activitie Radio System (SINCGARS), validate and test the enhancements and p (WREN) waveforms, validate implementation of fielded enterprise Ove characterization and analysis of waveforms to meet current and future	problem fixes of the Warrior Robust Enhanced Network r The Air Management (eOTAM), and provide performan			
FY 2024 Plans: Funding will validate continued design and system engineering activitie Radio System (SINCGARS), validate and test the enhancements and p (WREN) waveforms, validate implementation of fielded enterprise Ove characterization and analysis of waveforms to meet current and future Networking Waveforms (ANWf) / Non-Developmental Items (NDI).	problem fixes of the Warrior Robust Enhanced Network r The Air Management (eOTAM), and provide performan	æ		
FY 2023 to FY 2024 Increase/Decrease Statement: Increase is due to additional resources required for eOTAM 2.1 and W Formal Qualification Testing (FQT).	REN Release B Lab and Field Based Risk Reductions, a	nd		
Title: Waveforms Software Support and System Engineering		2.313	2.289	2.319
Description: PdM Waveforms software support and systems engineer provides the following: 1) Radio Services applications that enable over-the-air (OTA) NSA cryptondwidth efficient OTA protocols supporting the Unified Network Line 2) eOTAM will enhance radio health services, Common Management I network management systems and comply with NSA security standard	ptographic key, radio and network configuration tools and of Effort (LOE) for CSs nformation Base (MIB) integration, integration with Army			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: I	March 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605031A / Joint Tactical Network (JTN)	Project (Number/ EX6 / Waveforms	Name)	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
 3) Evaluate the Technology Readiness Level (TRL) of ANWf in support of the 4) Oversight and inform policy for SINCGARS, WREN, TSM, eOTAM, and relat activities 				
FY 2023 Plans: Funding will support radio services software, product enhancement, and system above in support of PdM Waveforms. Support will include: release of enterprise Service activities for the integration of existing and emerging waveforms in the Robust Enhanced Network (WREN) integration to Manpack and Leader Radios ensuring interoperability between the US and Coalition partners, including Lead	e Over The Air Management (eOTAM); Lead DoD; analysis of TSM capabilities for Warrior s, and release to DoD, NATO and ABCANZ	bed		
FY 2024 Plans: Funding will support radio services software, product enhancement, and system above in support of PdM Waveforms. Support will include: release of enterprise integration into Integrated Network Battalion and Below (INB2) and Unified Net for the integration of existing and emerging waveforms in the DoD; analysis of Network (WREN) integration to Manpack and Leader Radios, Risk Managemen and release to DoD, NATO and ABCANZ ensuring interoperability between the activities.	e Over The Air Management (eOTAM) and work Operations (UNO); Lead Service activitie TSM capabilities for Warrior Robust Enhanced nt Framework(RMF) for new WREN capabilitie	2S S,		
FY 2023 to FY 2024 Increase/Decrease Statement: Funding change reflects planned life cycle of this effort.				
Title: SBIR/STTR Transfer		-	0.709	-
Description: Funding transferred in accordance with Title 15 USC §638				
FY 2023 Plans: SBIR/STTR Transfer				
FY 2023 to FY 2024 Increase/Decrease Statement: SBIR/STTR Funding to be transferred in accordance with Title 15 USC §638				
	Accomplishments/Planned Programs Sub	totals 18.205	19.436	20.088
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u>				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
2040 / 5	PE 0605031A / Joint Tactical Network (JTN)	EX6 I Waveforms

D. Acquisition Strategy

PdM Waveforms is responsible for core activities, includes analyzing, developing, and updating legacy and current waveforms that operate on multiple radio sets supporting network-centric operational warfare. Waveform developments (upgrading, developing, and maintaining) will generally be procured through full and open contract competitions or through leveraging other government agencies.

While maintaining legacy and current networking waveforms, PdM Waveforms implemented a strategy which focuses on vetting and analyzing ANWf. The product office continues to establish working relationships with industry partners within the waveform market. The strategy consists of conducting initial analysis of commercial waveforms, identifying implementation strategies, documenting and remediating vulnerabilities, and making recommendations to senior leadership on potential Army and other Services' use cases.

Exhibit R-3, RDT&E F			024 Army	/									March 2	J23	
Appropriation/Budge 2040 / 5	et Activity	1							umber/Na ical Netwo			(Numbe Vaveforms	,		
Management Service	es (\$ in M	illions)	ſ	FY	2022	FY 2	2023	FY 2024 Base		FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support - Matrix	MIPR	C5ISR Center : APG, MD	5.350	0.784	Jan 2022	1.575	Jan 2023	1.940	Jan 2024	-		1.940	Continuing	Continuing	Continuin
Program Management Support - SETA	C/CPFF	SEV1-Tech : Woodbridge, VA	8.819	2.195	Dec 2021	1.866	Nov 2022	1.828	Nov 2023	-		1.828	Continuing	Continuing	Continuin
		Subtotal	14.169	2.979		3.441		3.768		-		3.768	Continuing	Continuing	N/A
Product Developmer	nt (\$ in M	illions)	ſ	FY	2022	FY 2	2023		2024 Ise	FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development - C5ISR Center	MIPR	C5ISR Center : APG, MD	38.376	1.288	Apr 2022	4.527	Nov 2022	2.391	Mar 2024	-		2.391	Continuing	Continuing	Continuin
Software Development - Technical/Coding (MA- IDIQ)	C/CPAF	MA - IDIQ : Various Locations	19.632	4.129	Sep 2022	-		3.213	Mar 2024	-		3.213	Continuing	Continuing	Continuin
Software Development - WREN/TSM (ACC- PICA/ OTA)	C/CPFF	Advanced Technology International : Summerville, SC	-	3.523	Sep 2022	5.482	Apr 2023	-		-		-	0.000	9.005	-
Software Development - WREN/TSM (IDIQ)	TBD	TBD : TBD	-	-		-		4.124	Mar 2024	-		4.124	Continuing	Continuing	Continuin
		Subtotal	58.008	8.940		10.009		9.728		-		9.728	Continuing	Continuing	N/A
Support (\$ in Million	s)		ſ	FY	2022	FY 2	2023		2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering - SSC NIWC	MIPR	SSC LANT/PAC : Charleston, SC; San Diego, CA	2.148	0.460	Dec 2021	0.418	Dec 2022	0.470	Nov 2023	-		0.470	Continuing	Continuing	Continuin
Software Support - WREN	MIPR	C5ISR Center : APG, MD	5.993	1.853	Nov 2021	1.871	Nov 2022	1.849	Nov 2023	-		1.849	Continuing	Continuing	Continuin
		Subtotal	8.141	2.313		2.289		2.319		-		2.319	Continuing	Continuing	N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	024 Arm	у								Date:	March 20	023	
Appropriation/Budg 2040 / 5	et Activity	1				R-1 Program Element (Number/Name) PE 0605031A / Joint Tactical Network (JTN)Project (Number/Name) EX6 / Waveforms									
Test and Evaluation	ı (\$ in Milli	ons)		FY 2022		FY 2	FY 2023		FY 2024 Base		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation - C5ISR Center	MIPR	C5ISR Center : APG, MD	14.164	3.973	Feb 2022	3.697	Feb 2023	4.273	Mar 2024	-		4.273	Continuing	Continuing	Continuing
Test and Evaluation - NATO	MIPR	RAND : Arlington, VA	0.490	-		-		-		-		-	0.000	0.490	-
		Subtotal	14.654	3.973		3.697		4.273		-		4.273	Continuing	Continuing	N/A
			Prior Years	FY	2022	FY	2023	FY 2 Ba	2024 Ise	FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	94.972	18.205		19.436		20.088		-		20.088	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 A	vrmy						Date: March 20)23
Appropriation/Budget Activity 2040 / 5					nt (Number/Nan Tactical Network	ne) Project (I (<i>JTN</i>) EX6 / Wa	Number/Name) veforms	
	FY 2022	FY 20	23	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Event Name	1 2 3 4	1 2 3	4	1 2 3 4	1 2 3 4		1 2 3 4	1 2 3 4
SINCGARS 3.1.1 Waveform	1 3.1.1 Release							
SINCGARS NexGen Waveform Development			si	NC NexGen Developr	nent			
SINCGARS NexGen Waveform Problem Report (PR) Fixes				SIN	C NexGen PR fixes			
SINCGARS NexGen Waveform					SINC NexGen Re	lease		
SINCGARS NexGen Waveform FQT							SINC FOT	
Warrior Robust Enhanced Network (WREN) PR Fixes	WREN Hardening , Minor	Enhancements, F	PR Fixes					
Warrior Robust Enhanced Network (WREN) A Maintenance/ LB.	WREN Release A Ma	intenance, PR Fix	es & LBRR	VFBRR				
Warrior Robust Enhanced Network (WREN) A	w	2 EN Release A						
Warrior Robust Enhanced Network (WREN) B Development		WREN Dev Relea	ase B Deve	lopment & Porting				
Warrior Robust Enhanced Network (WREN) B PR Fixes					WREN Dev Release B I	Hardening , Enhancements	, PR Fixes.	
Warrior Robust Enhanced Network (WREN) B Maintenance/ LB.						WREN Release B Mai	ntenance, PR Fixes & LBR	R/FBRR
Warrior Robust Enhanced Network (WREN) B						w	7 REN Release B	
Warrior Robust Enhanced Network (WREN) C Development								WREN Dev Release C De
						1	1	

Exhibit R-4, RDT&E Schedule Profile: PB 2024 /	Army							Date: March 20)23	
Appropriation/Budget Activity 2040 / 5					nt (Number/Name Tactical Network			lumber/Name) /eforms		
Event Name	FY 2022	FY 202		FY 2024	FY 2025		Y 2026	FY 2027	FY 202	
Enterprise Over The Air Management (eOTAM) 2.1				3	M 2.1 Release					
Enterprise Over The Air Management (eOTAM) 2.2					eotam 2.	2 Release				
Enterprise Over The Air Management (eOTAM) 2.2.1							eOTAM 2.	2.1 Release		
Enterprise Over The Air Management (eOTAM) 2.3								eotam 2	3 Release	
Enterprise Over The Air Management (eOTAM) 2.3.1									eOT	10. TAM 2.3
Advanced Networking Waveforms (ANWf) Analysis	Advanced Networking Ws	iveforms (ANWf) A	nalysis							
MA/IDIQ - Contract Award	Contract Award - 5 YR Ba	se & 5 YR Option	- \$249.6M							

ropriation/Budget Activity	R-1 Program Element (Number PE 0605031A / Joint Tactical Net		Project (Number/Nam EX6 / Waveforms	ie)
Sch	edule Details			
	St	art	Er	nd
Events	Quarter	Year	Quarter	Year
SINCGARS 3.1.1 Waveform	1	2022	1	2022
SINCGARS NexGen Waveform Development	1	2024	3	2028
SINCGARS NexGen Waveform Problem Report (PR) Fixes	4	2024	3	2025
SINCGARS NexGen Waveform	2	2025	2	2025
SINCGARS NexGen Waveform FQT	1	2027	1	2027
Warrior Robust Enhanced Network (WREN) C5ISR Transition	4	2020	4	2020
Warrior Robust Enhanced Network (WREN) PR Fixes	1	2021	4	2022
Warrior Robust Enhanced Network (WREN) A Maintenance/ LBRR/ FBRR	1	2022	4	2024
Warrior Robust Enhanced Network (WREN) A	1	2023	1	2023
Warrior Robust Enhanced Network (WREN) B Development	1	2023	4	2024
Warrior Robust Enhanced Network (WREN) B PR Fixes	1	2025	1	2026
Warrior Robust Enhanced Network (WREN) B Maintenance/ LBRR/ FBRR	1	2026	4	2028
Warrior Robust Enhanced Network (WREN) B	1	2027	1	2027
Warrior Robust Enhanced Network (WREN) C Development	1	2028	4	2028
Enterprise Over The Air Management (eOTAM) 2.0	1	2021	1	2021
Enterprise Over The Air Management (eOTAM) 2.1	4	2024	4	2024
Enterprise Over The Air Management (eOTAM) 2.2	4	2025	4	2025
Enterprise Over The Air Management (eOTAM) 2.2.1	4	2026	4	2026
Enterprise Over The Air Management (eOTAM) 2.3	4	2027	4	2027
Enterprise Over The Air Management (eOTAM) 2.3.1	4	2028	4	2028
Advanced Networking Waveforms (ANWf) Analysis	1	2021	4	2028
MA/IDIQ - Contract Award	4	2018	4	2028

Exhibit R-2, RDT&E Budget Iter	n Justificat	t ion: PB 202	24 Army							Date: Mare	ch 2023	
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)				R-1 Program Element (Number/Name) PE 0605035A <i>I Common Infrared Countermeasures (CIRCM)</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	-	15.982	11.523	11.509	-	11.509	5.679	11.627	12.335	12.580	0.000	81.235
EB4: CIRCM	-	15.982	11.523	11.509	-	11.509	5.679	11.627	12.335	12.580	0.000	81.235

A. Mission Description and Budget Item Justification

This funding line is a key enabler of the Army Modernization Priorities in support of the Aircraft Survivability Equipment (ASE) program. The Common Infrared Countermeasure (CIRCM) budget line includes funding to support the development and integration of Aircraft Survivability Equipment (ASE) products onto rotary wing and fixed wing aircraft.

CIRCM (EB4)

CIRCM is the next generation lightweight, laser-based Infrared Countermeasure (IRCM) component that will interface with the Army's Common Missile Warning System (CMWS), Limited Interim Missile Warning System (LIMWS), Advanced Threat Warner (ATW), and future Improved Threat Detection System (ITDS) to defeat current and emerging missile threats that use multispectral technology for rotary-wing, tilt-rotor and small fixed-wing aircraft across the DoD. CIRCM receives an angular bearing hand-off from the MWS, employs a pointing and tracking system which acquires the handed-over threat and tracks the incoming missile during and after motor burnout. CIRCM jams the missile by using modulated laser energy in the missile seeker band, thus degrading the tracking capability of the missile and causing it to miss the aircraft. CIRCM is utilizing Open Systems Architecture which allows flexibility with software and hardware refreshes. Tech insertions, when coupled with future threat acquisition and integration, will ensure CIRCM performance to keep pace with future threats. CIRCM is part of the suite of ASE Mission Equipment for the Future Vertical Lift (FVL) platform.

The CIRCM A-Kit includes mounting hardware, wiring harnesses, and other components necessary to install and interface the mission kit on host aircraft. The A-Kit ensures the mission kit is functionally and physically operational with a specific host aircraft type. The CIRCM B-Kit is the mission kit (laser, pointer tracker, and controller) required to achieve near spherical coverage for an aircraft.

JUONS SO-0010 and CIRCM QRC

As a part of Phase 2a of the JUONS (SO-0010) program, the Army integrated the Department of the Navy Large Aircraft Infrared Countermeasure (DoN LAIRCM) system onto the Army and Special Operations Aircraft platforms. Due to a number of challenges, circumstances, and variables, the Army updated the ATW/CIRCM QRC and Limited Interim Missile Warning System (LIMWS) Directed Requirements (dated November 16, 2018). The updated requirements extend the utilization of ATW DoN LAIRCM on conventional Army aircraft and cancel the need for the ATW/CIRCM QRC system for the conventional Army. (It should be noted that the updated requirement maintains the need for ATW/CIRCM on the Special Operations Aircraft. Sustainment of ATW on Special Operations Aircraft will transfer to Special Operations Aircraft budget line in FY23). As a result, the Army did not acquire the ATW sensors for use in Phase 3 of the JUONS effort. Instead, the Army accelerated the procurement of the CIRCM QRC systems for use with the currently fielded CMWS in preparation for transition to the LIMWS system.

Fiscal Year (FY) 2024 Base Research, Development, Test, and Evaluation (RDTE) funding in the amount of \$11.509 million will fund A-Kit development, integration and test activities on multi-variant platforms as well as threat and vulnerability analysis.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 A	Army			Date:	March 2023
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA Development & Demonstration (SDD)	A 5: System	-	ement (Number/Name) Common Infrared Count		
B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	16.630	11.523	5.236	-	5.236
Current President's Budget	15.982	11.523	11.509	-	11.509
Total Adjustments	-0.648	0.000	6.273	-	6.273
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.648	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	6.273	-	6.273

Change Summary Explanation

FY 2024 funding aligns with the programs approved Full Rate Production (FRP) Army Cost Position (ACP).

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	vrmy							Date: Marc	ch 2023	
Appropriation/Budget Activity 2040 / 5				-		•	,	Project (Number/Name) EB4 / CIRCM				
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
EB4: CIRCM	-	15.982	11.523	11.509	-	11.509	5.679	11.627	12.335	12.580	0.000	81.235
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is a key enabler of the Army Modernization Priorities in support of Future Vertical Lift (FVL) Future Attack Reconnaissance Aircraft (FARA) and Future Long-Range Assault Aircraft (FLRAA) platforms.

The Common Infrared Countermeasure (CIRCM) budget line funding supports continuing A-Kit development, model based systems engineering, and integration activities for rotary wing and fixed wing aircraft.

CIRCM (EB4)

CIRCM is the next generation lightweight, laser-based Infrared Countermeasure (IRCM) component that will interface with the Army's Common Missile Warning System (CMWS), Limited Interim Missile Warning System (LIMWS), Advanced Threat Warner (ATW), and future Improved Threat Detection System (ITDS) system to defeat current and emerging missile threats that use multispectral technology for rotary-wing, tilt-rotor and small fixed-wing aircraft across the Department of Defense (DoD). CIRCM receives an angular bearing hand-off from the Missile Warning System (MWS), employs a pointing and tracking system which acquires the handed-over threat and tracks the incoming missile during and after motor burnout. CIRCM jams the missile by using modulated laser energy in the missile seeker band, thus degrading the tracking capability of the missile and causing it to miss the aircraft. CIRCM is utilizing Open Systems Architecture which allows flexibility with software and hardware refreshes. Tech insertions, when coupled with future threat acquisition and integration, will ensure CIRCM performance to keep pace with future threats. CIRCM is part of the suite of Aircraft Survivability Equipment (ASE) Mission Equipment for the FVL platform.

The CIRCM A-Kit includes mounting hardware, wiring harnesses, and other components necessary to install and interface the mission kit on host aircraft. The A-Kit ensures the mission kit is functionally and physically operational with a specific host aircraft type. The CIRCM B-Kit is the mission kit (laser, pointer tracker, and controller) required to achieve near spherical coverage for an aircraft.

Joint Urgent Operational Needs Statement (JUONS) SO-0010 and CIRCM Quick Reaction Capability (QRC)

As a part of Phase 2a of the JUONS (SO-0010) program, the Army integrated the Department of Navy Large Aircraft Infrared Countermeasure (DoN LAIRCM) system onto the Army and Special Operations Aircraft (SOA) platforms. Due to a number of challenges, circumstances, and variables, the Army updated the ATW/CIRCM QRC and Limited Interim Missile Warning System (LIMWS) Directed Requirements (dated November 16, 2018). The updated requirements extend the utilization of ATW DoN LAIRCM on conventional Army aircraft and cancel the need for the ATW/CIRCM QRC system for the conventional Army. (It should be noted that the updated requirement maintains the need for ATW/CIRCM on the Special Operations Aircraft. Sustainment of ATW on Special Operations Aircraft will transfer to Special Operations Aircraft budget line in FY23). As a result, the Army did not acquire the ATW sensors for use in Phase 3 of the JUONS effort. Instead, the Army accelerated the procurement of the CIRCM QRC systems for use with the currently fielded CMWS in preparation for transition to the LIMWS system.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	/larch 2023			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605035A / Common Infrared Counterm easures (CIRCM)	m EB4 / CIRCM				
FY 2024 Base Research, Development, Test, and Evaluation (RE on multi-variant platforms as well as threat and vulnerability analy		development, integ	gration and te	st activities		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024		
Title: CIRCM Product Development		11.109	4.570	5.956		
Description: CIRCM product development, support costs, & man	agement services					
FY 2023 Plans: FY 2023 RDTE Base funding supports continuing A-Kit developmer forCH-47F. Additionally, funding supports preliminary analysis for						
FY 2024 Plans: FY 2024 RDTE Base funding supports continuing A-Kit development for CH-47F. Additionally, funding supports preliminary analysis for platforms.		vities				
FY 2023 to FY 2024 Increase/Decrease Statement: Level of effort remained stable						
Title: CIRCM Test & Evaluation (T&E)		4.873	6.532	5.553		
Description: CIRCM T&E activities						
FY 2023 Plans: FY 2023 RDTE Base funding supports A-Kit Integration testing for improvement testing. Supports continuing Threat & Vulnerability A						
FY 2024 Plans: FY 2024 RDTE Base funding supports A-Kit Integration testing for software improvement testing. Supports continuing Threat & Vulne						
FY 2023 to FY 2024 Increase/Decrease Statement: Level of effort remained stable						
Title: SBIR/STTR Transfer		-	0.421	-		
FY 2023 Plans: FY23: Funding transferred in accordance with Title 15 USC §638						
FY 2023 to FY 2024 Increase/Decrease Statement:						

Exhibit R-2A, RDT&E Project Jus	tification: PB	2024 Army							Date: M	arch 2023	
Appropriation/Budget Activity 2040 / 5				PE 06	rogram Eler 05035A / Co es (CIRCM)	•	er/Name) red Countern	-	t (Number/N CIRCM	ame)	
B. Accomplishments/Planned Pro FY23: Funding transferred in accord	• •	•	638						FY 2022	FY 2023	FY 2024
				Accon	nplishments	s/Planned P	rograms Su	btotals	15.982	11.523	11.509
C. Other Program Funding Summ	nary (\$ in Milli	<u>ons)</u>									
Line Item • AZ3537: Common Infrared Countermeasures (CIRCM) <u>Remarks</u>	FY 2022 234.012	<u>FY 2023</u> 284.334	<u>FY 2024</u> <u>Base</u> 261.384	<u>FY 2024</u> <u>OCO</u> -	<u>FY 2024</u> <u>Total</u> 261.384	<u>FY 2025</u> 254.397	<u>FY 2026</u> 257.727	<u>FY 202</u> 257.46			Total Cost 3,881.437
D. Acquisition Stratogy											

D. Acquisition Strategy

The December 28, 2011, Defense Acquisition Executive (DAE) Acquisition Decision Memorandum (ADM) authorized entry into the Technology Maturation and Risk Reduction (TMRR) phase, designated the program a pre-Major Defense Acquisition Program (MDAP), and approved the updated exit criteria. The August 25, 2015, DAE ADM authorized entry into the Engineering and Manufacturing Development (EMD) phase and designated the program as a MDAP. The EMD contract was awarded to Northrop Grumman Systems Corporation (NGSC) on August 28, 2015. The EMD contract includes priced options for Other Platform A-Kit Development, A-Kit Engineering Support, Low Rate Initial Production (LRIP) 1 and 2 Prototypes (Hardware and Installs), LRIP 1 and 2 Engineering and Test Support, Software Technical Data Package (TDP), Navy funded requirements, and Defense Exportability Features (DEF). CIRCM MS C was approved September 14, 2018, the LRIP and Engineering Support options were exercised and the program entered the Production & Deployment phase with First Unit Equipped (FUE) achieved in the second quarter of FY 2020. During the Milestone C approval process, the Chief of Staff of the Army directed funding be increased beginning in FY 2020 to accelerate CIRCM production, Initial Operational Test (IOT) and to field one Combat Aviation Brigade (CAB) per year. A Full Rate Production (FRP) Decision was approved April 13, 2021 and a five year Indefinite Delivery Indefinite Quantity (IDIQ) contract was awarded to NGSC on April 30, 2021 for up to 596 B-Kits with options for Engineering Services, Repairs, and Contractor Logistics Support services. The program met the Initial Operational Capability (IOC) threshold date of September 2022. The program plans to award a new five year IDIQ contract to continue B-Kit production in FY26.

Due to the urgency of addressing the Size, Weight, Power, and Cooling (SWaP-C) issues related to the Phase 2a JUONS SO-0010 DoN LAIRCM initial materiel solution, the Army approved a Directed Requirement for the Phase 3 ATW/CIRCM QRC (requirement updated in November 2018). The updated requirements extend the utilization of ATW DoN LAIRCM on conventional Army aircraft and cancel the need for the ATW/CIRCM QRC system for the conventional Army. (It should be noted that the updated requirement maintains the need for ATW/CIRCM on the Special Operations Aircraft. Sustainment of ATW on Special Operations Aircraft will transfer to Special Operations Aircraft budget line in FY23). As a result, the Army will no longer acquire the ATW sensors for use in Phase 3 of the JUONS effort. Instead, the Army accelerated the procurement of the CIRCM QRC systems for use with the currently fielded CMWS in preparation for transition to the LIMWS system.

Appropriation/Budge 2040 / 5	et Activity					PE 060		common l	umber/Na Infrared C		Project EB4 / C	(Number NRCM	r/Name)		
Management Service	es (\$ in M	illions)		FY 2	2022	FY 2	2023		2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering Program Management	Various	Various : -	33.279	1.243	Nov 2021	1.300	Nov 2022	1.032	Nov 2023	-		1.032	Continuing	Continuing	Continuin
SBIR/STTR Transfer	TBD	Various : Various	-	-		0.421		-		-		-	0.000	0.421	-
	1	Subtotal	33.279	1.243		1.721		1.032		-		1.032	Continuing	Continuing	N/A
Product Developmer	nt (\$ in Mi	llions)		FY 2	2022	FY 2	2023		2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Non-recurring Engineering (NRE) - Multi Platform A-Kit Development & Integration	C/CPFF	Various : -	104.630	7.146	Jun 2022	3.091	Jun 2023	3.184	Jun 2024	-		3.184	Continuing	Continuing	Continuinç
Other - Threat Management	Various	Various : -	36.010	2.720		0.600		1.740		-		1.740	Continuing	Continuing	Continuin
		Subtotal	140.640	9.866		3.691		4.924		-		4.924	Continuing	Continuing	N/A
Test and Evaluation	(\$ in Milli	ons)		FY 2	2022	FY 2	2023		2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government System Test and Evaluation	Various	Various : -	151.118	4.273	Apr 2022	5.111	Apr 2023	5.553	Apr 2024	-		5.553	Continuing	Continuing	Continuin
Other Testing - Test Support	Various	Various : -	38.082	0.600		1.000		-		-		-	Continuing	Continuing	Continuin
		Subtotal	189.200	4.873		6.111		5.553		-		5.553	Continuing	Continuing	N/A
			Prior Years	FY 2	2022	FY 2	2023		2024 ISE	FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	363.119	15.982		11.523		11.509		-		11.509	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2024 Arm	у					Date:	March 20	23	
Appropriation/Budget Activity 2040 / 5			-	ement (Number/N Common Infrared (1)	•	Project (EB4 / C//		r/Name)		
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024	٩rm	/																			Da	te: I	Marc	ch 20	23			
Appropriation/Budget Activity 2040 / 5								R-1 PE 0 <i>easu</i>	605	035	A/(emer Comr 1)	nt (N non	lumt Infra	ber/ ared	Nam Coui	e) nterm	Pi דו דו	r oje o 34 /	ct (N CIR	lum CM	ber/	Nan	ne)				
		FV	202	0		FV	20	02			20	24		FV	202	25		FV	202	6		FV	202	7		FY 2		•
Event Name	1	2		2	1		20.		1				1			25	1	2			1	2			1	2	3	
Multi-Platform A-Kit Development, Integration, Testing																												
Future Threat Acquisition & Integration																												
Note																												
none																												

khibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Marc	h 2023	
ppropriation/Budget Activity 040 / 5	_	Element (Number I Common Infrare CM)	-	Project (Number/Nam EB4 / CIRCM	ie)	
	Schedule Details	5				
		Sta	art	End		
Events		Quarter	Year	Quarter	Year	
Multi-Platform A-Kit Development, Integration, Testing		1	2015	4	2031	
Engineering & Manufacturing Development (EMD) Phase		4	2015	4	2018	
Developmental Test Activity		1	2016	4	2018	
Prototyping		1	2016	1	2018	
Reliability Demonstration Test (RDT)		2	2018	4	2018	
Initial Operational Test and Evaluation (IOT&E)		3	2019	1	2020	
Future Threat Acquisition & Integration		1	2020	4	2039	

Exhibit R-2, RDT&E Budget Iten	n Justificat	i on: PB 202	24 Army							Date: Marc	ch 2023	
Appropriation/Budget Activity 2040: Research, Development, Te Development & Demonstration (S		ation, Army	/ BA 5: Sys	tem	-		t (Number/ ating Weapo		Destruction	n (CWMD)		
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	-	-	-	1.050	-	1.050	8.696	10.832	10.947	11.069	0.000	42.594
EQ5: Combating Weapons of Mass Destruction (CWMD)	-	-	-	1.050	-	1.050	8.696	10.832	10.947	11.069	0.000	42.594

Note

This is a New Start in FY24

A. Mission Description and Budget Item Justification

Advanced Radiological, Nuclear Detection Family of Systems (ARND FOS) will provide an enhanced standoff, wide area/ networked detection capability to produce a RN site picture depicting radiological hot spots and facilitating the detection of high priority areas of interest/focus on an objective.

The Chemically Protected Deployable Medical System (CP DEPMEDS) program procures equipment to provide chemical and biological protection to US Army Role 3 field hospitals.

FY24 Base request for ARND FoS is \$679,000.00.

FY24 Base request for CP DEPMEDS is \$371,000.

Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	1.050	-	1.050
Total Adjustments	0.000	0.000	1.050	-	1.050
Congressional General Reductions	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
Congressional Directed Transfers	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	1.050	-	1.050

Additional programs have been added to this line. These are new start efforts for FY24.

ibit R-2, RDT&E Budget Item Justification: PB 2024 Army	Date: March 2023
propriation/Budget Activity D: Research, Development, Test & Evaluation, Army I BA 5: System elopment & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605036A / Combating Weapons of Mass Destruction (CWMD)
FY24 Base TOA for ARND FoS is \$679,000.00. FY24 Base TOA for CP DEPMEDS is \$371,000	

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2024 A	Army							Date: Mar	ch 2023	
Appropriation/Budget Activity 2040 / 5					PE 060503	am Elemen 36A / Comba ion (CWMD)	ating Weap		Project (N EQ5 / Corr Destruction	bating We	me) apons of Ma	ass
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
EQ5: Combating Weapons of Mass Destruction (CWMD)	-	-	-	1.050	-	1.050	8.696	10.832	10.947	11.069	0.000	42.594
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
This is a New Start in FY24 <u>A. Mission Description and Buc</u> Advanced Radiological, Nuclear RN site picture depicting radiolog The Chemically Protected Deploy	Detection F jical hot spo	amily of Sys ots and facili	stems (ARN itating the d	etection of	high priority	areas of int	terest/focus	on an obje	ctive.			
field hospitals. B. Accomplishments/Planned F	Programs (S	in Million	<u>s)</u>						FY	2022	FY 2023	FY 2024
Title: FY24 Combating Weapons	of Mass De	estruction								-	-	1.050
FY 2024 Plans: ARND FoS new start program will Develop ACQ strategy and progra Conduct market survey. Develop contracting package.			ling for the	following ac	ctivities.							
CP DEPMEDS program will use I Develop Logistics Documentation) funding fo	r the followi	ng activities	6.							
FY 2023 to FY 2024 Increase/De	ecrease Sta	tement:										
This is a New Start in FY24												
This is a New Start in FY24					Accomplis	shments/Pla	anned Prog	grams Sub	totals	-	-	1.050
This is a New Start in FY24 <u>C. Other Program Funding Sum</u> N/A	ımary (\$ in	<u>Millions)</u>			Accomplis	shments/Pl	anned Prog	grams Sub	totals	-	-	1.050

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023
2040 / 5	PE 0605036A / Combating Weapons of Mas	•	•

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

<u>Remarks</u>

D. Acquisition Strategy

ARND FoS will evaluate Commercial-Off-The-Shelf (COTS) solutions and Defense Threat Reduction Agency (DTRA) prototypes to meet requirements in the CPD. The PMO will initiate program document development, complete a market survey, release a contract for candidate systems to increase competition between vendors, down-select to most suitable vendor, and complete all necessary testing on both the air and ground systems. The ARND FoS acquisition strategy will be refined following the completion of the acquisition shaping panel (ASP) review.

The Chemically Protected Deployable Medical System (CP DEPMEDS) will revise the program's technical manuals and other logistics documentation to reflect changes resulting from the program's modernization and re-configuration efforts.

Appropriation/Budge 2040 / 5	et Activity	1				PE 060		Combating	umber/Na g Weapon		EQ5/C	(Number Combating tion (CWI	Weapons	of Mass	;
Management Service	es (\$ in M	illions)		FY	2022	FY :	2023	FY 2 Ba	2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management (ARND FoS)	TBD	Various : Various	-	-		-		0.200	Jan 2024	-		0.200	0.000	0.200	-
		Subtotal	-	-		-		0.200		-		0.200	0.000	0.200	N/A
Support (\$ in Million	s)			FY	2022	FY	2023	FY 2 Ba	2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering (ARND FoS)	TBD	Edgewood Chemical and Biological Center : Aberdeen Proving Ground, MD	-	-		-		0.379	Jan 2024	-		0.379	0.000	0.379	-
Logistics (ARND FoS)	TBD	Various : Various	-	-		-		0.050	Jan 2024	-		0.050	0.000	0.050	-
Logistics (CP DEPMEDS)	TBD	Various : Various	-	-		-		0.371	Jan 2024	-		0.371	0.000	0.371	-
	1	Subtotal	-	-		-		0.800		-		0.800	0.000	0.800	N/A
Test and Evaluation	(\$ in Milli	ons)		FY	2022	FY	2023	FY 2 Ba	2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
T&E (ARND FoS)	TBD	ATEC : Aberdeen Proving Ground, MD	-	-		-		0.050	Jan 2024	-		0.050	0.000	0.050	-
		Subtotal	-	-		-		0.050		-		0.050	0.000	0.050	N/A
			Prior Years	FY	2022	FY	2023	FY 2 Ba	2024 Ise		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	-	-		-		1.050		-		1.050	0.000	1.050	N/A

xhibit R-4, RDT&E Schedule Profile: PB 2024 ppropriation/Budget Activity 040 / 5	, uniy	I		A I Comb	t (Number/Name ating Weapons of)		Project (N EQ5 / Con Destructio	luml nbat	ber/Nar ing Wea			
Event Name	FY 2022	FY 202		(2024	FY 2025		FY 2026		FY 20			2028
Acquisition Documentation Development - ARND FoS	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
Logistics Documentation - CP DEPMEDS												
nitiate program documentation and acquisition strategy												
ward Prototype Contract - ARND FoS												
Developmental Testing - ARND FoS												
Milestone C- ARND FoS								1				

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army		Date: March 2023					
Appropriation/Budget Activity 2040 / 5	PE 0605036A / Combating Weapons of Mas	Project (Number/Name) EQ5 <i>I Combating Weapons of Mass</i> <i>Destruction (CWMD)</i>					
Schedule Details							

	Sta	End		
Events	Quarter	Year	Quarter	Year
Acquisition Documentation Development - ARND FoS	1	2023	4	2023
Logistics Documentation - CP DEPMEDS	1	2024	4	2024
Initiate program documentation and acquisition strategy - ARND FoS	1	2024	4	2024
Award Prototype Contract - ARND FoS	1	2025	4	2025
Developmental Testing - ARND FoS	1	2026	4	2026
Milestone C- ARND FoS	1	2027	1	2027

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army											Date: March 2023		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605038A I Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite							Sensor	
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	0.000	7.340	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.340	
EQ7: NBC Reconnaissance Vehicle (NBCRV) Sensor Suite	-	7.340	-	-	-	-	-	-	-	-	0.000	7.340	

A. Mission Description and Budget Item Justification

Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU) modernizes the legacy NBCRV sensor suite and provides maneuver formations the ability to conduct mounted reconnaissance and surveillance missions of Chemical Biological Radiological and Nuclear (CBRN) named areas of interest (NAIs). NBCRV SSU is being procured because a modern and capable NBCRV SSU is a critical component for Joint Force success when operating in the complex CBRN environment. Additionally, operating with combat vehicles fighting against increasingly capable and determined enemies requires like capability with regard to protection, mobility, and lethality. NBCRV SSU will accomplish this by integrating the capability for command and control of unmanned systems with CBRN payload. NBCRV SSU will provide a CBRN detection, tipping and queueing to accomplish desired standoff distances to keep the warfighter out of harm's way and reduce sustainment costs over the current system.

B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	7.618	0.000	0.000	-	0.000
Current President's Budget	7.340	0.000	0.000	-	0.000
Total Adjustments	-0.278	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-0.278	-			
SBIR/STTR Transfer	-	-			

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2024 A	Army							Date: Ma	arch 2023	
Appropriation/Budget Activity 2040 / 5				PE 060503	38A I Nucle	n t (Number / ar Biologica hicle (NBCR	l Chemica	EQ7 I NE	ject (Number/Name) 7 I NBC Reconnaissance Vehicle 3CRV) Sensor Suite			
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 202	Cost To Complete	Total Cost
EQ7: NBC Reconnaissance Vehicle (NBCRV) Sensor Suite	-	7.340	-	-	-	-	-	-	-		- 0.000	7.340
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-		-	
Biological Radiological and Nucle facilitate proactive risk-based de II modification work order (MWO distance from the threat, via enha B. Accomplishments/Planned F <i>Title:</i> Product Development and <i>Description:</i> Development of CS integration, Government strategic	cisions, to e) effort to m anced CBR <u>Programs (</u> Unmanned &D, radiolog	ensure freed odernize the N standoff c <u>\$ in Millions</u> Platform Int ical detector	om of action e current NE capabilities of s) egration rs, standoff	n and main 3CRV Sens & integratin chemical v	tain maneuv sor Suite to i g onto robo apor detecto	ver moment increase ma tics for man	um in Large aintainability ined unman ed platform	e Scale Cor , reliability, ned teamin identificatio	nbat Opera maneuve g. F n and	ations. NBC	RV SSU is a	n ACAT
Title: Program Management and	Oversight									0.565	-	-
Description: Program Managem	ent and Ov	ersight										
					Accomplis	shments/Pl	anned Prog	grams Sub	ototals	7.340	-	-
<u>C. Other Program Funding Sum</u> N/A <u>Remarks</u>	<u>nmary (\$ in</u>	<u>Millions)</u>										

D. Acquisition Strategy

Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU) is an upgrade for the Stryker NBCRV. The Army Requirements Oversight Council (AROC) Review Board (ARB) decided on 1 FEB 2022 to continue a Modification Work Order (MWO) pathway for Capability Set 2.1 (CS2.1) (initial SSU capability) as a bridge to CS2.2 (full SSU capability). The NBCRV SSU program received prototype CS2.1 systems via Other Transaction Authority (OTA) in March 2022, and will continue testing through October 2023, to inform a Conditional Materiel Release Decision in FY24. An In Progress Review (IPR) will be held starting

PE 0605038A: *Nuclear Biological Chemical Reconnaissan...* Army

xhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023
ppropriation/Budget Activity 040 / 5	R-1 Program Element (Number/Name) PE 0605038A <i>I Nuclear Biological Chemica</i> <i>I Reconnaissance Vehicle (NBCRV) Sensor</i> <i>Suite</i>	Project (Number/Name) EQ7 I NBC Reconnaissance Vehicle (NBCRV) Sensor Suite
n FY23 to execute an MWO for CS2.1 production and fielding, sta August 2024, followed by testing in FY24 through early FY26 to in	arting in FY24. The NBCRV SSU program will receive prot	

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	024 Army	/								Date:	March 20)23	
Appropriation/Budge 2040 / 5		R-1 Program Element (Number/Name) PE 0605038A I Nuclear Biological Chemica I Reconnaissance Vehicle (NBCRV) Sensor SuiteProject (Number 					ÌBC Reco	, nnaissan	ce Vehicle	9					
Management Service	es (\$ in M	illions)	ſ	FY 2	2022	FY	2023		2024 ase	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management Personnel	MIPR	JPEO-CBRND : Edgewood, MD	3.114	0.565	Nov 2021	-		-		-		-	Continuing	Continuing	Continuin
		Subtotal	3.114	0.565		-		-		-		-	Continuing	Continuing	N/A
Product Developmer	nt (\$ in Mi	illions)	ſ	FY 2	2022	FY	2023		2024 ase	FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development and Sensor Integration	C/Various	Various : Various	21.440	3.421	Nov 2021	-		-		-		-	Continuing	Continuing	Continuin
		Subtotal	21.440	3.421		-		-		-		-	Continuing	Continuing	N/A
Test and Evaluation	(\$ in Milli	ons)	ſ	FY 2	2022	FY	2023		2024 ase	FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	MIPR	ECBC : Edgewood, MD	1.483	3.354	Nov 2021	-		-		-		-	Continuing	Continuing	Continuin
		Subtotal	1.483	3.354		-		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY	2022	FY	2023		2024 ase	FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	26.037	7.340		-		-		-		-	Continuing	Continuing	N/A

Remarks

PE 0605038A: *Nuclear Biological Chemical Reconnaissan...* Army

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Exhibit R-4, RDT&E Schedule Profile: P	B 2024 Army				C	Date: March 202	23
Appropriation/Budget Activity 2040 / 5		PE 0	0605038A I Nuclea connaissance Veh	t (Number/Name) ar Biological Chemica hicle (NBCRV) Sensor	EQ7 I NBC I	mber/Name) Reconnaissance ensor Suite	e Vehicle
Event Name	FY 2022	FY 2023	FY 2024		FY 2026	FY 2027	FY 2028
Design and Fabrication Phase 2 (CS2.1)	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
Component Test & System Level Test 1							
Limited User Test (LUT)		-					
Modification Work Order IPR							

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605038A <i>I Nuclear Biological Chemica</i> <i>I Reconnaissance Vehicle (NBCRV) Sensor</i> <i>Suite</i>	
		•

Schedule Details

	Sta	End		
Events	Quarter	Year	Quarter	Year
Design and Fabrication Phase 2 (CS2.1)	2	2020	2	2022
Component Test & System Level Test 1	4	2021	1	2024
Limited User Test (LUT)	4	2023	1	2024
Modification Work Order IPR	3	2023	3	2024

Exhibit R-2, RDT&E Budget Iter	n Justificat	tion: PB 202	24 Army							Date: March 2023		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)				R-1 Program Element (Number/Name) PE 0605041A / Defensive CYBER Tool Development								
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	-	18.811	39.029	27.714	-	27.714	24.268	21.430	21.494	21.620	0.000	174.366
CY5: CYBER Situational Understanding	-	18.811	27.125	16.581	-	16.581	14.343	11.354	11.476	11.490	0.000	111.180
EV5: Defensive CYBER Operations	-	-	5.477	5.128	-	5.128	5.642	5.706	5.766	5.830	0.000	33.549
XU3: Tactical DCO-I	-	-	6.427	6.005	-	6.005	4.283	4.370	4.252	4.300	0.000	29.637

Note

These funding lines are directly aligned to the Army Network Modernization Priority. Cyber Situational Understanding (Cyber SU) funding line supports the Army Network Modernization Strategy Line of Effort (LOE), Common Operating Environment (COE). Defensive Cyber Operations (DCO) and Tactical DCO Infrastructure (TDI) funding line supports the Army Network Modernization Strategy LOE, Key Enabler for Unified Network.

A. Mission Description and Budget Item Justification

These funding lines are key enablers/direct supporters of the Army Modernization Strategy. FY2024 Defensive Cyber Tool Development budget line provides funding for Program Executive Office Command Control and Communications - Tactical (PEO C3T) Cyber Situational Understanding (Cyber SU) and Tactical DCO Infrastructure (TDI) as well as Program Executive Office Enterprise Information Systems (PEO EIS) DCO Development Environment (formerly Forge).

655041CY5:

- Cyber Situational Understanding (Cyber SU) is a software only, mission command application within the Command Post Computing Environment (CPCE) designed for use by maneuver commanders at the tactical level (Brigade to Army Service Component Command (ASCC)) to enable analytics, visualization, understanding and decision making to counter Cyber Electromagnetic Activity (CEMA) threats in multi-domain operations. This funding will be executed by PEO C3T.

655041EV5:

- Defensive Cyber Operations (DCO) consists of platform and software programs which are key elements of the DCO Maneuver Baseline infrastructure, platform, and tools. The employment of defensive capabilities creates specific effects in cyberspace through actions that allow commanders to achieve the following objectives: deter, destroy, and defeat enemy offensive cyberspace operations; gain time; economy of force; control key terrain; protect tasked critical assets and infrastructure; and develop intelligence. DCO supports the Army Cyber Command (ARCYBER), Information Warfare Operations Center (IWOC), (5) Regional Cyber Centers (RCCs), Cyber Warfare Battalion (CWB), Multi-Domain Task Force (MDTF), Cyber Protection Brigade (CPB), and (41) Cyber Protection Teams (CPTs) in COMPO 1/2/3. DCO Development Environment (DCODE) is both physical and/or virtual assets that provide integration and assessment capabilities during the development and integration phases of operations. These assets are centrally managed in order to provide accountability, modernization, standardization, software updating and patching and security posture in order to maintain the Authority to Operate (ATO). This funding will be executed by PEO EIS.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army	Date: March 2023	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
2040: Research, Development, Test & Evaluation, Army I BA 5: System	PE 0605041A I Defensive CYBER Tool Development	
Development & Demonstration (SDD)		

655041XU3:

- TDI is a software only program that consists of pre-configured DCO applications that enable local and remote Cyber defenders to conduct cyberspace surveillance, and maneuver against an adversary traversing within the tactical network. The TDI capability is hosted on the Army's Tactical Server Infrastructure (TSI) and will reside within the Command Post at the tactical level (Brigade to Army Service Component Commands (ASCC)). This funding will be executed by PEO C3T.

FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	<u>FY 2024</u>	Total
18.811	33.029	17.664	-	1	7.664
18.811	39.029	27.714	-	2	27.714
0.000	6.000	10.050	-	1	0.050
-	-				
-	-				
-	-				
-	6.000				
-	-				
-	-				
-	-				
-	-	10.050	-	1	0.050
des General Redu	<u>ictions)</u>		Γ	FY 2022	FY 2023
				·	
or authentication for	r cyber security			-	6.00
	С	ongressional Add Subto	tals for Project: CY5	-	6.00
	18.811 18.811 0.000 - - - - - - - - - - - - - - -	18.811 33.029 18.811 39.029 0.000 6.000 - -	18.811 33.029 17.664 18.811 39.029 27.714 0.000 6.000 10.050 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 10.050	18.811 33.029 17.664 - 18.811 39.029 27.714 - 0.000 6.000 10.050 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 10.050 - des General Reductions) - - -	18.811 33.029 17.664 - 1 18.811 39.029 27.714 - 2 0.000 6.000 10.050 - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - 10.050 - 1 des General Reductions) - - - - or authentication for cyber security - - - -

Increase in funding in FY2023 for multi-factor authentication cyber security. Increase in funding in FY2024 due to alignment of funds to Cyber SU per U.S. Cyber Command Enhanced Budget Control. Increase in funding between FY2022 and FY2023 due to TDI funding transitioning from 0608041A CD 1 Defensive Cyber- Software Prototype Development (BA-8 Software Pilot Program) to a new project code XU3 (Tactical DCO-I) within PE 0605041A Defensive CYBER Tool Development.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army						Date: March 2023						
			Project (Number/Name) CY5 / CYBER Situational Understanding									
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
CY5: CYBER Situational Understanding	-	18.811	27.125	16.581	-	16.581	14.343	11.354	11.476	11.490	0.000	111.180
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This funding line is directly aligned to the Army Network Modernization Priority. This funding will be executed by Program Executive Office Command Control and Communications - Tactical (PEO C3T).

A. Mission Description and Budget Item Justification

Cyber SU is a software-only, mission command application designed for use by maneuver commanders at the tactical level (Infantry, Armor, Stryker Brigade Combat Teams, Division, Corps, and Army Service Component Commands). Cyber SU is the first application of its kind designed for maneuver commanders focusing on tactical/ expeditionary combat operations to detect and mitigate cyber and electronic warfare threats and assist with decision making during combat operations.

Cyber SU produces a Cyber Electromagnetic Activity (CEMA) overlay on the commander's Common Operational Picture (COP) within the Command Post Computing Environment (CPCE) software, and is integrated on the Tactical Server Infrastructure (TSI) framework. Unlike Enterprise Cyber Mission Force(s) Tools, Cyber SU was designed using the CPCE Software Development Kit (SDK), to operate within the constraints of TSI hardware, a bandwidth constrained tactical environment, and support Common Operating Environment (COE) standards on the Army's Command Post. The underlying Cyber SU framework is also being leveraged by the Air Force to ensure alignment with the Army and Air Force Combined Joint All Domain Command and Control (CJADC2). The Army will ensure Cyber SU has an open systems architecture and will continue to explore options to integrate Cyber SU functionality and data ingests between other Services as well as explore insertion of third-party technology within the Cyber SU solution.

Cyber SU provides the maneuver commander the ability to visualize and understand any cyber related impacts/threats to physical (geographical), logical (at a specific network internet protocol), and cyber persona layers (bad actors, from individuals to nation states) of tactical cyberspace data. Supporting CEMA, Cyber SU ingests existing data sources from related programs (e.g, Tactical Defense Cyber Operations Infrastructure, Command Post Computing Environment, Electronic Warfare Planning and Management Tool, Unified Network Operations, Distributed Common Ground System-Army, Data Distribution System), synchronizes and integrates blue (friendly), red (enemy), and grey (commercial/ private sector data), and enables collaboration therein at the tactical edge.

Cyber SU follows a five-year, Information Technology (IT) Box construct to deliver capability over time, based on approved requirements. In the current IT Box (FY2020 - FY2024), Cyber SU is being developed in three capability drops (CDs): See Yourself (Initial Capability), See Your Cyber Battlespace (CD 1), and Understand Your Cyber Battlespace (CD 2). Each capability drop builds upon the previous drop in order to deliver the full capability at the end of the five years. Cyber SU Initial Capability provides the Tactical Maneuver Commander and CEMA work group a user interface within the CPCE COP that shares friendly operations cyberspace activity including network and computer health/status. The CD 1 user interface expands to include visualization of enemy CEMA operations. The CD 2 capability incorporates advanced features and analytics to comprehend the meaning of cyber activity and facilitate response actions. This allows for proactive decision making in support multi-domain

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	larch 2023				
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A <i>I Defensive CYBER Tool Dev</i> <i>elopment</i>	•	roject (Number/Name) Y5 I CYBER Situational Understanding				
operations. Capability will continue to evolve in alignment with warfighter need FY2029).	ds with the renewal of the IT Box in FY2024 for	the following five-ye	ear term (FY2	025 -			
Cyber SU FY2024 funding supports the completion of development, testing a in 4QFY2024.	nd post-test fix/ integration to allow for the deliv	ery of the Cyber SU	CD 2 capabi	lity planned			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024			
Title: Development Engineering and Integration		14.992	15.909	9.678			
Description: Leverage industry developed prototype software, as well as inge Program of Record (PoRs) to develop and engineer the Cyber SU capability.	est and synchronize cyber data from multiple						
FY 2023 Plans: FY2023 funding supports the completion of CD 1 post- test fix and integration capability planned in FY2023. The CD 1 capability user interface expands to a work group the ability to visualize enemy CEMA operations. Funding also sup architecture products, middleware and back-end services required to establish incorporates advanced features and analytics to comprehend the meaning of allows for the Tactical Maneuver Commanders and CEMA staff to make product	allow the Tactical Maneuver Commander and C ports the development of systems engineering/ n the Cyber SU CD 2 capability. The CD 2 capa cyber activity and facilitate response actions. T	bility his					
FY 2024 Plans: FY 2024 funding supports the completion of development of systems enginee end services required to establish the Cyber SU CD 2 capability. Funding also for the delivery of the Cyber SU CD 2 capability planned in 4QFY2024. The C analytics to comprehend the meaning of cyber activity and facilitate response support of multi- domain operations.	o supports CD 2 post- test fix and integration to D 2 capability incorporates advanced features a	allow and					
FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease reflects reduction in product development efforts as the CD	2 capability build is completed during FY2024.						
Title: Systems Test and Evaluation		1.375	2.653	3.591			
Description: Efforts include the planning and execution of T&E events includi Software Acceptance Testing, Integration Events, Risk Reduction Events, and],					
FY 2023 Plans:							

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: M	arch 2023	
Appropriation/Budget Activity 2040 / 5		roject (Number/Name) Y5 / CYBER Situational Understanding			
B. Accomplishments/Planned Programs (\$ in Millions)		Γ	FY 2022	FY 2023	FY 2024
FY 2023 funding will allow for the continued developmental operations (DevOp assessment (OA), interoperability testing and cybersecurity assessments of the					
FY 2024 Plans: FY 2024 funding will support continued developmental operations (DevOps) ac assessment (OA), interoperability testing, and cybersecurity assessments of th Army Test and Evaluation Command (ATEC) Army Evaluation Center (AEC) re	e Cyber SU CD 2 capability. Funding also sup				
FY 2023 to FY 2024 Increase/Decrease Statement: Funding increase reflects increase in test support and instrumentation required finalizing the full deployment of the FY2020-2024 IT Box.	I for planned test events to support delivery of	CD 2,			
<i>Title:</i> Training Development			0.659	0.776	1.540
Description: The development of training support products, including coordina (TRADOC) US Army Cyber Command, PORs, and related organizations to dev		mand			
FY 2023 Plans: FY 2023 funding provides for the development of the New Equipment Training software user manuals/tech manuals and virtual training development for Cybe		,			
FY 2024 Plans: FY 2024 funding provides for the completion of development of the New Equip validation, software user manuals/tech manuals and virtual training developme		tion/			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding increase reflects development of comprehensive training products tha CDs.	t include all capabilities over the three deploye	d			
Title: Systems Engineering/Management			1.785	1.787	1.772
Description: Systems Engineering/Management includes business, technical of program execution, major events and reporting.	and logistical staff support and overall manage	ement			
<i>FY 2023 Plans:</i> FY 2023 funding provides for program office staff (matrix and contractor) contin duties necessary to plan and execute activities and milestone events to include		n			
FY 2024 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army				Date: N	larch 2023		
2040 / 5 PE	I Program Element (Number/N 0605041A / Defensive CYBER pment						
B. Accomplishments/Planned Programs (\$ in Millions) FY 2024 funding provides for program office staff (matrix and contractor) continued of duties necessary to plan and execute activities and milestone events to include t				FY 2022	FY 2023	FY 2024	
FY 2023 to FY 2024 Increase/Decrease Statement: Funding remains relatively constant.							
Accomplishments/Planned Programs Subtotals					21.125	16.58 ⁻	
	Γ	FY 2022	FY 202	3			
Congressional Add: Program Increase - Multi-factor authentication for cyber secu		-	6.0	00			
Congressional Add: Program Increase - Multi-factor authentication for cyber secu FY 2023 Plans: Congressional Interest Item funding provided for Multi-factor authe	rity	-	6.0	00			

N/A

<u>Remarks</u>

N/A

D. Acquisition Strategy

The Cyber SU Information System-Initial Capabilities Document was approved on 18 July 2018 by the Joint Requirements Oversight Council. The Requirements Definition Package (RDP) was approved on 19 March 2019 by the Army Requirements Oversight Council Requirements Board. The program is utilizing an evolutionary and tailored acquisition approach under which Cyber SU will develop a series of testable, integrated subsets of capability to meet the overall full functional values of the RDP through the use of Capability Drops (CDs). Subsequent CDs are to be approved by the U.S. Army Cyber Center of Excellence in collaboration with U.S. Army Forces Command. Under this Information Technology (IT) Box requirements construct, the Cyber SU program is currently executing the first five (5) year term FY 2020-FY 2024 (includes initial capability, CD1 and CD 2). The IT Box will be renewed in FY 2024 for the following five-year term FY 2025-FY 2029 (includes future CD's).

The Program Executive Office, Command, Control and Communications-Tactical, Milestone Decision Authority, approved the Materiel Development Decision on 20 June 2018, designating Cyber SU as an Acquisition Category (ACAT) III program. Cyber SU entered the Engineering and Manufacturing Development phase of the Acquisition Lifecycle with MDA approval of Milestone B conducted March 2020, and codified in an Acquisition Decision Memorandum 08 April 2020. Full Deployment for IT Box FY 2020-FY 2024 is achieved with completion of CD 2. Cyber SU Full Deployment is defined as when Cyber SU has completed the development and testing of the last capability drop within the IT Box and has transferred the capability to the Command Post Computing Environment (CPCE/TSI) program to commence fielding. Execution of the Cyber SU program will be a combination of government entities and commercial vendors.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A <i>I Defensive CYBER Tool Dev</i> <i>elopment</i>	Project (Number/Name) CY5 / CYBER Situational Understanding
The program awarded a competitive prototyping/development O OTA modification was awarded in June 2021, which extended th to ingest data from related programs (e.g, Tactical Defense Cybe Management Tool, Unified Network Operations, Distributed Com programs and systems (sources of cyber data feeds) is an integr	ne scope of the OTA to encompass CD 1 and CD 2 through F er Operations Infrastructure, Command Post Computing Env nmon Ground System-Army, Data Distribution System), Cool	Full Deployment FY2024. Cyber SU plans rironment, Electronic Warfare Planning and rdination and integration with complimentar
Cyber SU will be hosted on the Tactical Server Infrastructure (TS	SI) and will be fielded by the CPCE/TSI program in accordan	ce with their fielding schedule.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army Appropriation/Budget Activity 2040 / 5 R-1 Program Element (Number/Name) PE 0605041A / Defensive CYBER Tool Defensive elopment									Date: March 2023 Project (Number/Name) CY5 / CYBER Situational Understanding						
Management Service	es (\$ in M	illions)		FY 2	2022	FY	2023		2024 Ise	FY 2 OC					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contrac
Systems Engineering/ Management	Various	CACI; DEVCOM; CECOM : APG, MD	2.882	1.785	Mar 2022	1.787	Mar 2023	1.772	Mar 2024	-			_	Continuing	-
		Subtotal	2.882	1.785		1.787		1.772		-		1.772	Continuing	continuing	N//
Funding remains relatively	constant fro	m FY2023 to FY2024													
Funding remains relatively Product Developmen	nt (\$ in M			FY 2	2022	FY	2023		2024 Ise	FY 2 OC		FY 2024 Total]		Torrat
<u> </u>			Prior Years	FY 2 Cost	2022 Award Date	FY 2 Cost	2023 Award Date		-				Cost To Complete	Total Cost	
Product Developmer	nt (\$ in M Contract Method	illions) Performing		Cost	Award	Cost	Award	Ba Cost	Award	00	CO Award	Total Cost	Complete	1	Value of
Product Developmer	nt (\$ in M Contract Method & Type	Performing Activity & Location Research Innovations Inc (RII) :		Cost 7.491	Award Date	Cost 10.250	Award Date	Cost 4.938	Award Date	OC Cost	CO Award	Total Cost 4.938	Complete Continuing	Cost	Value of Contrac
Product Developmen Cost Category Item Software Development	nt (\$ in M Contract Method & Type C/FFP	Performing Activity & Location Research Innovations Inc (RII) : Alexandria, VA CACI; DEVCOM DAC : APG, MD;		Cost 7.491 2.074	Award Date Jan 2022	Cost 10.250 2.117	Award Date Jan 2023	Cost 4.938 1.757	Award Date Nov 2023	Cost -	CO Award	Total Cost 4.938 1.757	Complete Continuing Continuing	Cost Continuing	Value of Contrac
Product Developmen Cost Category Item Software Development Software Engineering	nt (\$ in M Contract Method & Type C/FFP Various	Illions) Performing Activity & Location Research Innovations Inc (RII) : Alexandria, VA CACI; DEVCOM DAC : APG, MD; Picatinny, NJ Parsons; Various Matrix Orgs : APG,		Cost 7.491 2.074 2.416	Award Date Jan 2022 Jan 2022	Cost 10.250 2.117 3.077	Award Date Jan 2023 Dec 2022	Ba Cost 4.938 1.757 2.703	Award Date Nov 2023 Dec 2023	Cost -	CO Award	Total Cost 4.938 1.757 2.703	Complete Continuing Continuing Continuing	Cost Continuing Continuing	Value of Contrac
Product Developmen Cost Category Item Software Development Software Engineering Software Integration Developmental Hardware	nt (\$ in M Contract Method & Type C/FFP Various Various	Illions) Performing Activity & Location Research Innovations Inc (RII) : Alexandria, VA CACI; DEVCOM DAC : APG, MD; Picatinny, NJ Parsons; Various Matrix Orgs : APG, MD CHS; CHESS; DITCO : APG, MD; Ft. Belvoir, VA; Scott		Cost 7.491 2.074 2.416	Award Date Jan 2022 Jan 2022 Feb 2022	Cost 10.250 2.117 3.077	Award Date Jan 2023 Dec 2022 Dec 2022 Jan 2023	Ba Cost 4.938 1.757 2.703	Award Date Nov 2023 Dec 2023 Dec 2023	Cost -	CO Award	Total Cost 4.938 1.757 2.703	Complete Continuing Continuing Continuing	Cost Continuing Continuing Continuing	Value of Contract

Contract award date reflects when the first incremental funding is expected to be obligated in the Fiscal Year.

Exhibit R-3, RDT&E P	Project C	ost Analysis: PB 2	2024 Arm	у								Date:	March 20)23			
Appropriation/Budge 2040 / 5	t Activity	,					ogram Ele 5041A / E ent					(Numbe SYBER Si	r/Name) tuational (Understar	nding		
Product Developmen	nt (\$ in Mi	illions)		FY 2	2022	FY	2023		2024 Ise	FY 2 O(]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
Software Development dec Software Integration costs i Software Integration cost de Software Engineering costs Software Engineering costs Developmental Hardware (I New Developmental HW ar developmental lab equipmental Developmental HW and SW	includes CP ecreased du s include de s decreased HW) and Sc nd associate ent will be re	CE Program of Record ue to efficiencies betwee sign, architecture and e due to shared support offware (SW) includes D ed SW is required every equired, as with FY2024	(PoR) Integ en shared so ingineering with other P evelopment 4-5 years to	ration Engir upport with personnel. M MC prog al HW, Dev o ensure de	neering and CPCE progr rams. relopmental velopment c	am. SW and De on upgrade	evelopmenta d platforms.			ly SW rene	wals and						
Support (\$ in Millions	s)			FY 2	2022	FY	2023		2024 Ise		2024 CO	FY 2024 Total]				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
Training Development	Various	DLA; Parsons; ILSC : Philadelphia, PA; APG, MD	0.765	0.659	Jun 2022	0.776	Jun 2023	1.540	Jan 2024	-		1.540	Continuing	Continuing			
	1	Subtotal	0.765	0.659		0.776		1.540		-		1.540	Continuing	Continuing	N/A		
Remarks Contract award date reflect Training Development inclu Funding increase in FY 202	ides Trainin 24 due to inc	g Development, Softwar crease in training develo	re User Mar	nuals, Train virtual train	ing Validatio	n/Verificati		FY	evelopment	FY 2	2024 CO	FY 2024 Total]				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
Integration/Interoperability/ Operational Assessment	Various	Future Skies; Decision Engineering; ATEC; CTSF : Picatinny, NJ; APG, MD; Ft. Hood, TX	0.979	0.353	Mar 2022	1.527	Dec 2022	2.115	Nov 2023	-		2.115	Continuing	Continuing	-		

	Ahibit R-3, RDT&E Project Cost Analysis: PB 2024 Army Opropriation/Budget Activity 40 / 5 R-1 Program Element (Number/Name) PE 0605041A / Defensive CYBER Tool Dev CY5 / CYE							(Number	,		ding				
Test and Evaluation	(\$ in Milli	ons)		FY 2	2022	FY 2	2023		2024 Ise	FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IA/Test Support	C/FFP	CACI : APG, MD	1.036	0.728	Mar 2022	0.823	Dec 2022	1.109	Nov 2023	-		1.109	Continuing	Continuing	-
Cybersecurity Assessments	Various	DEVCOM DAC; TSMO : APG, MD; Redstone Arsenal, AL	0.328	0.294	Feb 2022	0.303	Nov 2022	0.367	Nov 2023	-		0.367	Continuing	Continuing	-
		Subtotal	2.343	1.375		2.653		3.591		-		3.591	Continuing	Continuing	N/A

Integration/Interoperability Test includes Army Evaluation Center (AEC) Support and Program of Record (PoR) Integration Testing.

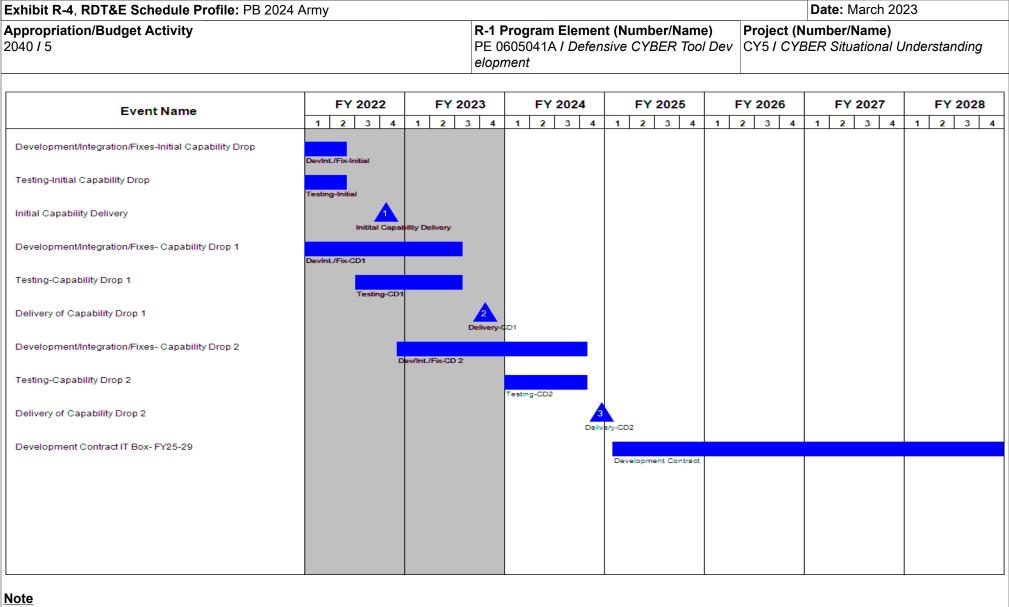
Interoperability Testing and Operational Assessments were not required in FY 2022.

Funding increase in FY2024 Operational Assessments due to the ATEC AEC requirement for DT instrumentation

Funding increase in FY2024 test support is due to the need for additional test/evaluation personnel at test events to support CD 2 delivery in 4QFY2024.

	Duinu			EV 0004	EX 000 (E)/ 000 /	0	Tatal	Target
	Prior Years	FY 2022	FY 202	FY 2024 23 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Value of Contract
Project Cost Totals	5.990	18.811	27.125	16.581	-	16.581	Continuing	Continuing	N/A

Remarks



Information Technology (IT) Box requirements construct, the Cyber SU program is currently executing the first five (5) year term FY 2020-FY 2024 (includes initial capability, CD1 and CD 2). The IT Box will be renewed in FY 2024 for the following five-year term FY 2025-FY 2029 (includes future CD's).

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army		Date: March 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A <i>I Defensive CYBER Tool Dev</i> <i>elopment</i>		umber/Name) ER Situational Understanding
Cyber SU will be hosted on the Tactical Server Infrastructure (TSI) and will be SU delivery is defined as when Cyber SU provides the capability to CPCE/TSI		ce with the	Army fielding schedule. Cyber

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army	Date: March 2023	
Appropriation/Budget Activity 2040 / 5	PE 0605041A / Defensive CYBER Tool Dev	 umber/Name) ER Situational Understanding
	elopment	

Schedule Details

	Sta	Start				
Events	Quarter	Year	Quarter	Year		
RDP Approval	2	2019	2	2019		
Milestone B Approval	3	2020	3	2020		
Development/Integration/Fixes-Initial Capability Drop	3	2020	2	2022		
Testing-Initial Capability Drop	2	2021	2	2022		
Initial Capability Delivery	4	2022	4	2022		
Development/Integration/Fixes- Capability Drop 1	4	2021	3	2023		
Testing-Capability Drop 1	3	2022	3	2023		
Delivery of Capability Drop 1	4	2023	4	2023		
Development/Integration/Fixes- Capability Drop 2	4	2022	4	2024		
Testing-Capability Drop 2	1	2024	4	2024		
Delivery of Capability Drop 2	4	2024	4	2024		
Development Contract IT Box- FY25-29	1	2025	4	2028		

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	Army							Date: Mare	ch 2023	
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name)Project (Number/Name)PE 0605041A / Defensive CYBER Tool DevEV5 / Defensive CYBER OperationelopmentEV5 / Defensive CYBER Operation					IS	
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
EV5: Defensive CYBER Operations	-	-	5.477	5.128	-	5.128	5.642	5.706	5.766	5.830	0.000	33.549
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Defensive Cyber Operations (DCO) supports the Army Network Modernization Strategy Line of Effort (LOE) Key Enabler for the Unified Network. These efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

Defensive Cyber Tools and Analytics:

* DCO - DCO Development Environment (DCODE Forge) // (PEO EIS)

655041EV5:

- Defensive Cyber Operations (DCO) consists of platform and software programs which are key elements of the DCO Maneuver Baseline infrastructure, platform, and tools. The employment of defensive capabilities creates specific effects in cyberspace through actions that allow commanders to achieve the following objectives: deter, destroy, and defeat enemy offensive cyberspace operations; gain time; economy of force; control key terrain; protect tasked critical assets and infrastructure; and develop intelligence. DCO supports the Army Cyber Command (ARCYBER), Information Warfare Operations Center (IWOC), (5) Regional Cyber Centers (RCCs), Cyber Warfare Battalion (CWB), Multi-Domain Task Force (MDTF), Cyber Protection Brigade (CPB), and (41) Cyber Protection Teams (CPTs) in COMPO 1/2/3.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: DCO - Development Environment (formerly Forge) (PEO EIS)	-	5.477	5.128
Description: DCO Development Environment (DCODE) (formerly Forge) is both physical and virtual assets that provide continual integration, upgrade, assessment, optimization in support of the warfighter's operational environment. Its purpovide centralized lifecycle management and consist of the following capabilities: 1) the physical and/or virtual assets provide integration and assessment capabilities during the development and integration phases of operations. These a centrally managed in order to provide accountability, modernization, standardization, software updating and patching a posture in order to maintain the Authority to Operate (ATO); 2) provides the capability for Cyber Protection Teams (CP) remotely access multiple networks, simultaneously, thru a safe and secure infrastructure framework.	bose is to that ssets are nd security		
FY 2023 Plans: FY2023 funding continues to provide physical and/or virtual assets that provide integration and assessment capabilities the development and integration phases of operations. These assets are centrally managed in order to provide account	u		

Exhibit R-2A, RDT&E Project Justif	fication: PB	2024 Army							Date: Ma	arch 2023	
Appropriation/Budget Activity 2040 / 5					05041A / De	nent (Numb efensive CYB	er/Name) ER Tool Dev	Project (Number/Name) EV5 / Defensive CYBER Operations			ons
B. Accomplishments/Planned Prog	<u>rams (\$ in I</u>	<u> Millions)</u>						Γ	FY 2022	FY 2023	FY 2024
modernization, standardization, softw (ATO)	/are updating	g and patchir	ng, and secu	irity posture i	in order to m	aintain the A	uthority to Op	perate			
FY 2024 Plans: FY2024 funding continues to provide physical and/or virtual assets that provide integration and assessment capabilities during the development and integration phases of operations. These assets are centrally managed in order to provide accountability, modernization, standardization, software updating and patching, and security posture in order to maintain the Authority to Operate (ATO). Delivery the capability for Cyber Protection Teams (CPTs) to remotely access multiple networks, simultaneously, through a safe and secure infrastructure framework while maintaining the security of the production environment. Perform the integration of containers into the GDP, and DDS-Ms.											
FY 2023 to FY 2024 Increase/Decree FY2024 funding decreases due to Ar											
				Accon	nplishment	s/Planned P	rograms Sub	ototals	-	5.477	5.128
C. Other Program Funding Summa	rv (\$ in Milli	ons)									
			FY 2024	FY 2024	<u>FY 2024</u>					<u>Cost To</u>	
Line Item	<u>FY 2022</u>	<u>FY 2023</u>	Base	<u>000</u>	<u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 202</u>			Total Cost
B63103: Advanced	27.389	-	13.848	-	13.848	16.144	20.942	20.62	6 20.643	Continuing	Continuing
Cyber Tool Development		10.000									10.000
• B66350: ARCYBER DEFENSIVE CYBER OPERATIONS	-	18.239	0.000	-	0.000	-	-	-	-	0.000	18.239
• B89001: Insider Threat	-	1.796	1.502	-	1.502	1.753	1.760	1.76	1 1.763	0.000	10.335
Program - Unit Activity Monitoring • 0608041A: Defensive CYBER - Software Prototype Development	108.041	94.831	83.570	-	83.570	72.059	71.660	72.44	7 72.559	0.000	575.167
Remarks											
OPA PE B63103 - DCO hardware p	rocurement.	fielding, and	lequipment	training for G	Garrison DC) Platform (0	GDP), Deploya	able Def	ensive Svster	ns (DDS), ar	nd DCODE
Armory.										(,	
OPA PE B66350 (New OPA budget											
OPA PE B89001 - DCO Insider Thre				for UAM ope	erations con	ducted in sup	port of the Ar	my's ins	ider threat pro	ogram.	
RDTE PE 0608041A - DCO Software	e Prototype [Developmen	t.								
L											

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army	Date: March 2023		
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 5	PE 0605041A / Defensive CYBER Tool Dev	EV5 / Defe	ensive CYBER Operations
	elopment		

D. Acquisition Strategy

The DCO Information System Initial Capabilities Document was approved on 19 December 2017 by the Army Requirements Oversight Council (AROC). DCO programs are under an IT Box construct with five year term (FY2018-FY2022) which aligns with current Requirements Definition Packages (RDPs). IT Box establishes funding thresholds, by appropriation, for a program over a capability's projected lifecycle of five (5) years. FY2018-2022 IT Box expired in 4QFY2022. FY2023-2027 IT Box Revalidation in staffing for approval.

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2024 Army	/								Date:	March 20)23			
Appropriation/Budget Activity 2040 / 5							•	•	lumber/N CYBER	•			nber/Name) sive CYBER Operations				
Test and Evaluation	(\$ in Milli	ons)		FY	2022	FY 2	2023		2024 ase	FY 2 OC		FY 2024 Total]				
Cost Category Item	Contract Method Performing em & Type Activity & Location		Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
DCO - DCO Development Environment (DCODE, formerly Forge (PEO EIS)	IA	ATEC & SEC & TOBYHANNA : Various	10.445	-		5.477	Jan 2023	5.128	Jan 2023	-		5.128	Continuing	Continuing	Continuing		
		Subtotal	10.445	-		5.477		5.128		-		5.128	Continuing	Continuing	N/A		
			Prior Years	FY	2022	FY 2	2023		2024 ase	FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract		
	_	Project Cost Totals	10.445	-		5.477		5.128		-		5.128	Continuing	Continuing	N/A		

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024	Army						Date: March 20	23
Appropriation/Budget Activity 2040 / 5			R-1 Prog PE 06050 elopment	41A I Defen	nt (Number/Namesive CYBER Too		Number/Name) Tensive CYBER O _l	perations
	FY 2022	FY 20:	23	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Event Name	1 2 3 4	1 2 3		2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
DCO - Development Environment (formerly Forge)	DCO Development Enviro	nment (formerly Fr	orge) Integratio	n and Support				
						1		

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A <i>I Defensive CYBER Tool Dev</i> <i>elopment</i>	 umber/Name) ensive CYBER Operations

Schedule Details

	Sta	End		
Events	Quarter	Year	Quarter	Year
DCO - Tactical DCO-Infrastructure (TDI) - RDP Approval	3	2018	3	2018
DCO - TDI Development/Integration/Testing-Initial	1	2019	4	2019
DCO - TDI- Initial Capability Delivery	1	2020	1	2020
DCO - TDI Development/Integration/Testing-CD 1	4	2019	4	2020
DCO- Cyberspace Analytics RDP Approval	3	2018	3	2018
DCO - Cyberspace Analytics POR Award	1	2019	1	2019
DCO - Cyberspace Analytics POR Contract	2	2019	4	2020
DCO - Cyberspace Analytics Capability Drop #1	1	2019	1	2019
DCO - Cyberspace Analytics Capability Drop #2	2	2019	2	2019
DCO - Cyberpace Analytics Capability Drop #3	3	2019	3	2019
DCO - Mission Planning RDP Approved	3	2018	3	2018
DCO - Mission Planning POR Award	1	2019	1	2019
DCO - Mission Planning POR Contract	2	2019	4	2020
DCO - Mission Planning Capability Drop #1	4	2019	4	2019
DCO - Mission Planning Capability Drop #2	1	2020	1	2020
DCO - Mission Planning Capability Drop #3	2	2020	2	2020
DCO - User Activity Monitoring Prototype Award	1	2019	4	2019
DCO - User Activity Monitoring RDP Approval	1	2019	1	2019
DCO - User Activity Monitoring POR Award	1	2020	1	2020
DCO - User Activity Monitoring POR Contract	1	2020	4	2020
DCO - User Activity Monitoring Employ on CASE Network	1	2020	2	2020
DCO - User Activity Monitoring Integrate with BDP	2	2020	3	2020

hibit R-4A, RDT&E Schedule Details: PB 2024 Army			[Date: Mare	ch 2023
propriation/Budget Activity 40 / 5	Element (Numbe I Defensive CYBE	Project (Number/Name) EV5 <i>I Defensive CYBER Operations</i>			
	St	art		E	nd
Events	Quarter	Year	Qı	uarter	Year
DCO - User Activity Monitoring Behavioral Analytics	3	2020		4	2020
DCO - Threat Emulation RDP Approval	1	2020		1	2020
DCO - Threat Emulation Program of Record	1	2020		4	2020
DCO - Development Environment (formerly Forge)	1	2019		4	2027
DCO - Management Services	1	2019		4	2020
DCO - ARCYBER Rapid Cyber Prototyping (DRUID)	3	2020		2	2021
DCO - ARCYBER Rapid Cyber Prototyping (Inception)	4	2020		4	2021

Exhibit R-2A, RDT&E Project J	ustification	: PB 2024 A	Army							Date: Mare	ch 2023	
Appropriation/Budget Activity 2040 / 5						am Elemen 1A / Defens	•	,	Project (N XU3 / Tacti		ne)	
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
XU3: Tactical DCO-I	-	-	6.427	6.005	-	6.005	4.283	4.370	4.252	4.300	0.000	29.637
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

<u>Note</u>

This funding line is directly aligned to the Army Network Modernization Priority. This funding will be executed by Program Executive Office Command Control and Communications - Tactical (PEO C3T).

Beginning in FY2023, TDI funding transitioned from 0608041A CD 1 Defensive Cyber- Software Prototype Development (BA-8 Software Pilot Program) to project code XU3 (Tactical DCO-I) within PE 0605041A Defensive CYBER Tool Development. TDI is funded with RDT&E only for development, engineering, testing, training development, and program management.

TDI FY2021-2022 funding is within PE 0608041A, Project code CD1 (BA8 Software Pilot). TDI FY2023 and beyond funding is within PE 0605041, Project code XU3 (Tactical DCO-I).

A. Mission Description and Budget Item Justification

TDI is a software only program that pre-configures DCO applications to allow local and remote Cyber defenders the ability to conduct cyberspace surveillance and maneuver against an adversary traversing within the tactical network. The TDI capability is hosted on the Army's Tactical Server Infrastructure (TSI) and will reside within the Command Post at the tactical level (Brigade to Army Service Component Commands (ASCC)).

The TDI capability includes: 1) Mission Protection: Ability to automate deployment of DCO tools to protect the virtual server environment of the Command Post Computing Environment (CPCE). 2) Discovery/Counter-Infiltration: Ability to auto detect multiple virtual cyber threats and facilitate the mitigation/denial of adversarial actions. 3) Cyberspace Support/Readiness: Allow global and regional cyberspace defenders to assist units with countering advanced persistent threats.

TDI follows a five-year, Information Technology (IT) Box construct to deliver capability over time, based on approved requirements. In IT Box (FY2023-2027), TDI will develop Capability Releases (CR) (CR 1 - CR 4) to implement TDI software change activities and updates to provide value to Brigades - ASCCs more quickly. CR 1 will collate and aggregate TDI data from various echelons and present it into a rolled-up status with dashboards reflecting various roles and responsibilities. CR 2 will integrate Security Orchestration, Automation, and Response (SOAR) and with Big Data Platform (BDP) to initiate alignment with the Army's tactical data fabric efforts. CR 3 will leverage Artificial Intelligence/Machine Learning (AI/ML) models generated from BDP and implement it at the tactical edge. CR 4 will support capabilities and technologies to address emerging cyber threats and techniques, tactics, and procedures (TTPs).

TDI FY 2024 funding supports the completion of development, engineering, testing, training development and program management required to establish the first Capability Release (CR) of the following IT Box FY 2023- FY 2027 in support of CR 1 delivery, planned for FY2024. FY 2024 funding will also support the initial development, engineering, testing, training development and program management of CR 2 in support of FY2025 delivery.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A / Defensive CYBER Tool Dev elopment		ct (Number/N Tactical DCC		
B. Accomplishments/Planned Programs (\$ in Millions)		Γ	FY 2022	FY 2023	FY 2024
Title: Development Engineering			-	4.575	4.059
Description: Efforts include development engineering and integration Network.	required for DCO tools to be utilized on the Tactical				
FY 2023 Plans: FY2023 funding supports the initial development engineering and integ delivery. CR 1 will collate and aggregate TDI data from various echelor reflecting various roles and responsibilities. Funding will also support the integrate Security Orchestration, Automation, and Response (SOAR) a the Army's tactical data fabric efforts.	ns and present it into a rolled-up status with dashboard ne initial development engineering of CR 2. CR 2 will	ls			
FY 2024 Plans: FY2024 funding supports the completion of development engineering a of 4QFY2024 delivery. CR 1 will collate and aggregate TDI data from v dashboards reflecting various roles and responsibilities. Funding will also f FY 2025 delivery. CR 2 will integrate Security Orchestration, Automa (BDP) to initiate alignment with the Army's tactical data fabric efforts.	arious echelons and present it into a rolled-up status v so support the continued development of CR 2 in supp	vith port			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding decreased due to reduction in software development and engi	neering efficiencies in second year of contract award.				
Title: Systems Test and Evaluation			-	1.013	0.993
Description: Efforts include the planning and execution of T&E events Software Acceptance Testing, Integration Events, Risk Reduction Even User Tests/Evaluations.					
FY 2023 Plans: FY 2023 funding will allow for the user testing of the TDI CD 3 capabilit interoperability testing of the TDI CR 1 capability, in order to gain data a support the delivery of CR 1 in FY2024.					
FY 2024 Plans: FY 2024 funding will allow for the operational testing and cybersecurity delivery in 4QFY2024. Funding will also support developmental testing					
FY 2023 to FY 2024 Increase/Decrease Statement:					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: N	larch 2023			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A <i>I Defensive CYBER Tool Dev</i> <i>elopment</i>		ect (Number/Name) I Tactical DCO-I				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024		
Funding remains relatively constant.							
<i>Title:</i> Training Development			-	0.240	0.52		
Description: The development of training support products, includ (TRADOC) US Army Cyber Command, PORs, and related organiz		mand					
FY 2023 Plans: FY 2023 funding provides for the development of the New Equipm validation, software user manuals/technical manuals and virtual tra							
FY 2024 Plans: FY 2024 funding provides for the development of the New Equipm validation, software user manuals/technical manuals and virtual tra							
FY 2023 to FY 2024 Increase/Decrease Statement: Funding increase due to increased support of virtual training of CF	R 1 and virtual training development of CR 2.						
Title: Systems Engineering/Management			-	0.599	0.43		
Description: Systems Engineering/Management includes busines of program execution, major events and reporting.	s, technical and logistical staff support and overall manage	ement					
FY 2023 Plans: FY 2023 funding provides for program office staff (matrix and cont duties necessary to plan and execute activities and milestone even FY2018- FY2022.		n					
FY 2024 Plans: FY 2024 funding provides for program office staff (matrix and cont duties necessary to plan and execute activities and milestone even		n					
FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease in FY 2024 due to efficiencies through shared p	ersonnel with other Army Mission Command programs.						
	Accomplishments/Planned Programs Subt	totals	-	6.427	6.00		

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A <i>I Defensive CYBER Tool Dev</i> <i>elopment</i>	Project (N XU3 / Tacti	umber/Name) ical DCO-l
C. Other Program Funding Summary (\$ in Millions)	•		
<u>Remarks</u>			
D. Acquisition Strategy The Milestone Decision Authority (MDA), approved the Materiel Development ACAT III program. The MDA approved a tailored defense unique software inter of the TDI program to the Program Manager (PM) and re-designation of the pro	nsive acquisition approach for TDI. On 23 Nov		
The TDI program is under an Information Technology (IT) Box construct with a 2018- FY 2022. The TDI program achieved initial capability delivery 1QFY202 completion of Capability Drop (CD) 3. TDI Full Deployment is defined as when Box and has transferred the capability to the Command Post Computing Enviro	0. Full Deployment for IT Box FY 2018-FY 202 TDI has completed the development and test	22 is planne ng of the la	d for 3QFY2023 with the st capability drop within the IT
IT Box (FY 2023-FY 2027) includes Capability Releases to implement TDI soft more quickly. A Capability Release (CR) includes software enhancements, so			•

cybersecurity updates. CR 1 will collate and aggregate TDI data from various echelons and present it into a rolled-up status with dashboards reflecting various roles and responsibilities. CR 2 will integrate Security Orchestration, Automation, and Response (SOAR) and with Big Data Platform (BDP) to initiate alignment with the Army's tactical data fabric efforts. CR 3 will leverage Artificial Intelligence/Machine Learning (AI/ML) models generated from BDP and implement it at the tactical edge. CR 4 will support capabilities and technologies to address emerging cyber threat and techniques, tactics, and procedures (TTPs).

Execution of the TDI program will be a combination of government entities and commercial vendors. TDI will be hosted on the Tactical Server Infrastructure (TSI) and will be fielded by the CPCE/TSI program in accordance with the Army fielding schedule.

	Project C									-						
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name)Project (Number/Name)PE 0605041A / Defensive CYBER Tool Dev elopmentXU3 / Tactical DCO-I										
Management Service	es (\$ in M	illions)		FY 2	2022	FY 2	2023		2024 ase		2024 CO	4 FY 2024 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value o Contrac	
Systems Engineering/ Management	Various	CACI; CECOM : APG, MD	-	-		0.599	Dec 2022	0.432	Dec 2023	-		0.432	Continuing	Continuing	-	
		Subtotal	-	-		0.599		0.432		-		0.432	Continuing	Continuing	N/	
Remarks Systems Engineering/ Man Funding decrease in FY 20 Contract award date reflect	24 due to et	ficiencies through share	ed personne	el with other	Army missi	ion commar						_				
Systems Engineering/ Man Funding decrease in FY 20	24 due to et s when the	ficiencies through share first incremental funding	ed personne	el with other d to be oblig	Army missi gated in the	ion commar Fiscal Year		FY	2024		2024	FY 2024				
Systems Engineering/ Man Funding decrease in FY 20 Contract award date reflect	24 due to et s when the	ficiencies through share first incremental funding	ed personne	el with other d to be oblig	Army missi	ion commar		FY	2024 ase Award Date		2024 CO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Value o	
Systems Engineering/ Man Funding decrease in FY 20 Contract award date reflect Product Developmer	24 due to et s when the nt (\$ in Mi Contract Method	fficiencies through share first incremental funding illions) Performing	ed personne g is expected Prior	el with other d to be oblig FY 2	Army missi gated in the 2022 Award	ion commar Fiscal Year FY 2 Cost	2023 Award	FY 2 Ba Cost	Award	00	CO Award	Total		Cost	Value o	
Systems Engineering/ Man Funding decrease in FY 20 Contract award date reflect Product Developmer Cost Category Item	24 due to et s when the nt (\$ in Mi Contract Method & Type	fficiencies through share first incremental funding illions) Performing Activity & Location TBD- Contract will be re-competed through	ed personne g is expected Prior	el with other d to be oblig FY 2	Army missi gated in the 2022 Award	ion commar Fiscal Year FY 2 Cost 2.748	2023 Award Date	FY 2 Ba Cost 2.773	Award Date	00	CO Award	Total Cost 2.773	Complete	Cost Continuing	Value o	
Systems Engineering/ Man Funding decrease in FY 20 Contract award date reflect Product Developmer Cost Category Item Software Development	24 due to et s when the nt (\$ in Mi Contract Method & Type C/TBD	fficiencies through share first incremental funding Activity & Location TBD- Contract will be re-competed through DIU OTA : TBD CECOM; CACI; PEO	ed personne g is expected Prior	el with other d to be oblig FY 2	Army missi gated in the 2022 Award	ion commar Fiscal Year FY 2 Cost 2.748 1.472	2023 Award Date Mar 2023	FY 2 Ba Cost 2.773 1.142	Award Date Dec 2023	00	CO Award	Total Cost 2.773 1.142	Complete Continuing Continuing	Cost Continuing	Target Value o Contrac - -	

Remarks

Software engineering decreased due to reduced requirement for engineering support. New Developmental HW and associated SW is required every 4-5 years for developmental labs. In the interim years, only software renewals are required for developmental lab equipment. Funding decreased due to reduction in software development and engineering efficiencies in second year of contract award. Contract award date reflects when the first incremental funding is expected to be obligated in the Fiscal Year.

Appropriation/Budg 2040 / 5	•	ost Analysis: PB 2 /		5			5041A / D		umber/Na CYBER T		-	Date: (Number actical DC			
Support (\$ in Millior	ıs)			FY 2	2022	FY 2	2023		2024 Ise	FY 2 OC]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Training Development	Various	DLA;ILSC : Philadelphia, PA; APG, MD	-	-		0.240	Jun 2023	0.521	Nov 2023	-		0.521	Continuing	Continuing	-
		Subtotal	-	-		0.240		0.521		-		0.521	Continuing	Continuing	N/A
Funding increase due to in Contract award date reflect Test and Evaluation	cts when the	first incremental funding			gated in the				2024 Ise	FY 2 OC		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Test and Evaluation	Various	CACI; ATEC; CTSF : APG, MD; Ft. Hood TX	-	-			Dec 2022		Nov 2023	-			Continuing		
		Subtotal	-	-		1.013		0.993		-		0.993	Continuing	Continuing	N/A
Remarks Funding remains relatively Contract award date refle			Prior					FY 2	-	FY 2		FY 2024	Cost To	Total	Target Value of
	_	Project Cost Totals	Years	FY 2	2022	FY 2 6.427	2023	ва 6.005	ISE	-	:0	Total	Complete Continuing	Continuing	Contract
Remarks					1				11						<u>, .,,</u>

2024 Army	PE 0	605041						Num	ber/	Name))23	
FY 2022	FY 2023											2028
		1 2	<u> </u>		4		Z J 4		2	3 4	1 2	<u> </u>
	A	D 3										
	Tes	ting - CR 1										
			2 Delivery -	CR 1								
					3	- CR 2						
							2R 3					
							4		2			
							Delive			CR 4		
								0-207				
	1 2 3 4	FY 2022 FY 2023 1 2 3 4 1 2 3 4 Testing - CD 3 Testing - CD 3 Delivery - Cl Delivery - Cl<	FY 2022 FY 2023 FY 1 2 3 4 1 2 3 4 1 2	FY 2022 FY 2023 FY 2024 1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FY 2022 FY 2023 FY 2024 FY 1 2 3 4 1 2 3 4 1 2 1 2 3 4 1 2 3 4 1 2 1 2 3 4 1 2 3 4 1 2 1 2 3 4 1 2 3 4 1 2 1 2 3 4 1 2 3 4 1 2 1 2 3 4 1 2 3 4 1 2 1 1 2 3 4 1 2 3 4 1 2 1 1 2 3 4 1 2 3 4 1 2 1 1 1 1 1 1 1 1 2 1 1	R-1 Program Element (Number/Nam PE 0605041A / Defensive CYBER Tot elopment FY 2022 FY 2023 FY 2024 FY 2025 1 2 3 4 1 2 3 1 1 2	R-1 Program Element (Number/Name) PE 0605041A / Defensive CYBER Tool Development FY 2022 FY 2023 FY 2024 FY 2025 1 2 3 4 1 2 3	R-1 Program Element (Number/Name) PE 0605041A / Defensive CYBER Tool Dev elopment Project (XU3 / Ta Testing - CD 3 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 Testing - CD 3 Devint /Fk - CR 1 Devint /Fk - CR 1 Devint /Fk - CR 2 Devint /Fk - CR 2 Devint /Fk - CR 2	R-1 Program Element (Number/Name) PE 0605041A / Defensive CYBER Tool Dev elopment Project (Num XU3 / Tactical XU3	R-1 Program Element (Number/Name) PE 0605041A / Defensive CYBER Tool Dev elopment Project (Number/I XU3 / Tactical DCC Testing-003 FY 2024 FY 2025 FY 2026 FY Testing-003 DevintLFR-0R1 DevintLFR-0R2 DevintLFR-0R2 DevintLFR-0R3 DevintLFR-0R1 DevintLFR-0R2 Testing-0R3 DevintLFR-0R3 DevintLFR-0R3 DevintLFR-0R3 Testing-0R3 Testing-0R3 DevintLFR-0R3 DevintLFR-0R3	R-1 Program Element (Number/Name) PE 0605041A / Defensive CYBER Tool Dev elopment Project (Number/Name) XU3 / Tactical DCO-I FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 1 2 3 4 1 2 3	R-1 Program Element (Number/Name) PE 0605041A / Defensive CYBER Tool Dev elopment Project (Number/Name) XU3 / Tactical DCO-I FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 FY 1 2 3 4 1 2

xhibit R-4, RDT&E Schedule Profile: PE	3 2024 Army				_	Date: March 202	23					
opropriation/Budget Activity 040 / 5		PE	R-1 Program Element (Number/Name)Project (Number/Name)PE 0605041A / Defensive CYBER Tool Dev elopmentXU3 / Tactical DCO-I									
Event Name	FY 2022	FY 2023	FY 2024		FY 2026	FY 2027	FY 2028					
	1 2 3 4	1 2 3 4	4 1 2 3 4	1 2 3 4 1	2 3 4	1 2 3 4	1 2 3					
Delivery of CR 4						5 Delive	ry - CR 4					
Development/Integration/Fixes - CR 5												
							Dev/Int./Fix - CR 5					

hibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: Marc	h 2023				
propriation/Budget Activity 40 / 5		I-1 Program Element (Number/Name) E 0605041A <i>I Defensive CYBER Tool Dev</i> <i>Iopment</i>						
	Schedule Details							
		Start	Er	nd				
Events	Quarter	Year	Quarter	Year				
Testing - CD 3	1	2023	2	2023				
Delivery of CD 3	3	2023	3	2023				
Development/Integration/Fixes - CR 1	3	2023	3	2024				
Testing - CR 1	4	2023	3	2024				
Delivery of CR 1	4	2024	4	2024				
Development/Integration/Fixes - CR 2	3	2024	3	2025				
Testing - CR 2	4	2024	3	2025				
Delivery of CR 2	4	2025	4	2025				
Development/Integration/Fixes - CR 3	4	2025	4	2026				
Testing - CR 3	1	2026	4	2026				
Delivery of CR 3	4	2026	4	2026				
Development/Integration/Fixes - CR 4	1	2027	4	2027				
Testing - CR 4	2	2027	4	2027				
Delivery of CR 4	4	2027	4	2027				
Development/Integration/Fixes - CR 5	1	2028	4	2028				

Note

Beginning in FY2023, TDI funding transitioned from 0608041A CD 1 Defensive Cyber- Software Prototype Development (BA-8 Software Pilot Program) to a new project code XU3 (Tactical DCO-I) within PE 0605041A Defensive CYBER Tool Development. TDI is funded with RDT&E only for development, engineering, testing, training development, and program management. TDI did not provide an opportunity for the BA-8 Software Pilot Program to assess the alignment of multiple appropriations into a single appropriation.

TDI will be hosted on the Tactical Server Infrastructure (TSI) and will be fielded by the Command Post Computing Environment/Tactical Services Infrastructure (CPCE/ TSI) program in accordance with the Army fielding schedule. TDI delivery is defined as when TDI provides the capability to CPCE/TSI to begin fielding.

Exhibit R-2, RDT&E Budget Iten	n Justificat	tion: PB 202	24 Army							Date: Mare	ch 2023	
Appropriation/Budget Activity 2040: Research, Development, Te Development & Demonstration (S		ation, Army	/ BA 5: Sysi		-		t (Number / al Network I	,	ms (Low-Ti	er)		
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	-	27.688	4.426	4.318	-	4.318	4.405	3.495	8.598	8.639	0.000	61.569
FA1: Manpack Radio	-	17.042	3.023	2.858	-	2.858	2.921	1.976	6.961	6.983	0.000	41.764
FA2: Rifleman Radio (RR)	-	10.646	1.403	1.460	-	1.460	1.484	1.519	1.637	1.656	0.000	19.805

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Network Modernization Priority. This effort supports the Army Network Modernization Strategy Line of Effort 1, Unified Network.

Tactical Network Radio Systems (Low-Tier) provide both Classified and Unclassified communications. The radios provide the Single Channel Ground and Airborne Radio System (SINCGARS) waveform for Classified and Unclassified communications. They also provide advanced networking waveforms (e.g. TrellisWare TSM) that provide Secure but Unclassified (SBU) communications. The Manpack (MP) radio provides the Mobile User Objective System (MUOS) waveform for Tactical Satellite communications.

The Handheld, Manpack, and Small Form Fit (HMS) radio program is a single Acquisition Category 1C program encompassing handheld radios and manpack radios. Handheld radio variants include the legacy single-channel Rifleman Radio (RR), Single Channel Data Radio (SCDR), and two-channel Leader Radio (LR). The manpack variants include the legacy Generation 1 Manpack, and the current Generation 2 Manpack. HMS provides voice and data communication to the expeditionary Warfighter with an on-the-move, at-the-halt, and stationary Line of Sight (LOS)/Beyond Line of Sight (BLOS) capability for both dismounted personnel and platforms. HMS radio systems are software reprogrammable, networkable, multi-mode systems capable of simultaneous voice and data communication. HMS radios supports a variety of other platforms, including tactical End User Devices (EUD) voice and data needs. HMS provides tailorable and scalable, software-defined radio systems meeting U.S. Army, Air Force, Navy, Marine Corps, and Special Operations Command communications needs.

FY2019 - FY2022 RDT&E funds supported Integrated Tactical Network (ITN) testing and evaluation, of which HMS is a key component, in addition to HMS Program of Record (PoR) test events. The HMS radio systems serve as the backbone of the ITN architecture, supporting a converged Mission Command network. The ITN tests supported mature system development, integration, and demonstration in support of ITN evaluation to include: concept refinement, characterization, data collection, demos, integrated testing, and operational assessments. The ITN is a warfighter-enabling System of Systems comprised of key networking components including HMS PoR radio systems, advanced high capacity commercial radios, commercial phone technologies, and advanced radio-application gateway integration and interoperability technologies. These ITN technologies increase transport options and support a converged Mission Command network. The ITN introduces a new SBU security domain enhancing Mission Partner interoperability and significantly reducing key distribution and other security-related burdens for the Soldier at lower echelons. Starting in FY 2023, ITN funds were realigned to PE 0605236A, CQ1.

HMS completed Initial Operational Test and Evaluation (IOT&E) during January 2021. Following the IOT&E test event, HMS outlined specific actions required to resolve test findings from the IOT&E event. FY2024 RDT&E funding supports testing activities including laboratory technical testing, Performance Verification Tests (PVTs),

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 A	rmy			Date:	March 2023
Appropriation/Budget Activity		R-1 Program El	ement (Number/Name)		
2040: Research, Development, Test & Evaluation, Army I BA	5: System	PE 0605042A / 7	Tactical Network Radio S	Systems (Low-Tier)	
Development & Demonstration (SDD)					
and Operational User Assessments (OUAs). Each of these		oth technical and	operational user feedba	ck on increased capabi	lities, future waveform
incorporation, soldier usability, and life-cycle sustainment im	provements.				
	T ' ()				
The total cost of the Integrated Tactical Network (ITN) Middle	e Tier of Acquisitic	on effort is \$76 mil	lion RDT&E from FY23	to FY28.?The ITN MTA	is fully funded across the
Future Years Defense Program.					
B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	28.741	4.497	4.409	-	4.409
Current President's Budget	27.688	4.426	4.318	-	4.318
Total Adjustments	-1.053	-0.071	-0.091	-	-0.091
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-1.053	-			
Adjustments to Budget Years	-	-	-0.091	-	-0.091
FFRDC Transfer	-	-0.071	-	-	-

Change Summary Explanation

Decreased funding to support higher Army priorities.

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	rmy							Date: Marc	ch 2023	
Appropriation/Budget Activity 2040 / 5					R-1 Progra PE 060504 tems (Low-	2A / Tactica	•	,		umber/Nan back Radio	,	
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
FA1: Manpack Radio	-	17.042	3.023	2.858	-	2.858	2.921	1.976	6.961	6.983	0.000	41.764
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Network Modernization Priority. This effort supports the Army Network Modernization Strategy Line of Effort 1, Unified Network.

MP radios provide both Classified and Unclassified communications. MP radios provide the Single Channel Ground and Airborne Radio System (SINCGARS) waveform for Classified and Unclassified communications. MP radios also provide advanced waveforms (e.g. TrellisWare TSM) that provide SBU communications. The MP radio provides the Mobile User Objective System (MUOS) waveform for Tactical Satellite (TACSAT) communications. The HMS program received a positive Full Rate Production (FRP) decision in 2021 and plans to host a PVT and OUA annually to verify vendor enhancements.

The Handheld, Manpack, and Small Form Fit (HMS) radio systems serve as the backbone of the Integrated Tactical Network (ITN) architecture, supporting a converged Mission Command network. FY2019 - FY2022 RDT&E funds supported ITN testing and evaluation, of which HMS is a key component, in addition to HMS Program of Record (PoR) test events. The ITN tests supported mature system development, integration, and demonstration in support of ITN evaluation to include: concept refinement, characterization, data collection, demos, integrated testing, and operational assessments. The ITN is a warfighter-enabling System of Systems comprised of key networking components including HMS PoR radio systems, advanced high capacity commercial radios, commercial phone technologies, and advanced radio-application gateway integration and interoperability technologies. These ITN technologies increase transport options and support a converged Mission Command network. The ITN introduces a new Secure But Unclassified (SBU) security domain enhancing Mission Partner interoperability and significantly reducing key distribution and other security-related burdens for the Soldier at lower echelons. Starting in FY 2023, ITN funds were realigned to PE 0605236A, CQ1.

HMS completed Initial Operational Test and Evaluation (IOT&E) during January 2021. Following the IOT&E test event, HMS outlined specific actions required to resolve test findings from the IOT&E event. FY2023 and beyond RDT&E funding supports testing activities including laboratory technical testing, Performance Verification Tests (PVTs), and Operational User Assessments (OUAs). Each of these events provides both technical and operational user feedback on increased capabilities, future waveform incorporation, soldier usability, and life-cycle sustainment improvements.

FY2024 funds in the amount of \$2.858M support delta testing, Performance Verification Tests (PVTs), Operational User Assessments (OUAs), examination of modular and open system architectures to decrease future integration and waveform porting costs.

The total cost of the Integrated Tactical Network (ITN) Middle Tier of Acquisition effort is \$76 million RDT&E from FY23 to FY28.?The ITN MTA is fully funded across the Future Years Defense Program.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	1arch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605042A / Tactical Network Radio Sys tems (Low-Tier)	Project (Number/N FA1 / Manpack Ra	,	
3. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Title: Program Management		1.806	0.118	0.110
Description: Program management includes overall management of execution, contract management, and logistical support. Includes part meetings.		eam		
FY 2023 Plans: FY 2023 funds will provide overall management and oversight to impl Contractor support.	ement HMS acquisition strategy - to include Matrix and			
FY 2024 Plans: FY 2024 funds will provide overall management and oversight to impl Contractor support.	ement HMS acquisition strategy - to include Matrix and			
F Y 2023 to FY 2024 Increase/Decrease Statement: Budget decreased from FY2023 to FY2024 as a result of changes in I	labor rates for projected PMO support.			
Title: HMS Engineering/Technical Support		3.123	1.623	1.648
Description: Overall technical analysis support to HMS Manpack pro	oducts.			
FY 2023 Plans: FY 2023 funds will provide technical systems engineering support to e architecture analysis to identify alternatives to reduce cost, improve p		ion		
FY 2024 Plans: FY 2024 funds will provide technical systems engineering support to e architecture analysis to identify alternatives to reduce cost, improve p		ion		
F Y 2023 to FY 2024 Increase/Decrease Statement: Budget decreased from FY2023 to FY2024 as a result of changes in I	labor rates for projected Engineering/Technical Support.			
Title: Test and Evaluation		12.113	1.167	1.100
Description: Manpack's Test and Evaluation focuses on the key tech Frequency performance, security, Reliability, Availability & Maintainak o operational environmental performance requirements as per the Ca future procurement for Full Rate Production and informed required de Verification Tests (PVTs), and Operational User Assessments (OUAs	bility, suitability and survivability requirements, in addition apability Production Document. Results from OT facilitat alta testing. HMS funding supports delta testing, Perform	n ed		
verification Tests (PVTs), and Operational User Assessments (OUAs).			

Exhibit R-2A, RDT&E Project Just	tification: PB	2024 Army							Date: Ma	arch 2023	
Appropriation/Budget Activity 2040 / 5				PE 06	-	nent (Numb ctical Netwo	e r/Name) rk Radio Sys		t (Number/N Manpack Rad		
B. Accomplishments/Planned Pro	ograms (\$ in I	<u>Millions)</u>							FY 2022	FY 2023	FY 2024
FY 2023 Plans: FY 2023 Research Development Te Test (PVT), Operational User Asses integration and waveform porting co	ssment (OUA)	```	• •	•	•						
FY 2024 Plans: FY 2024 Research Development Te Tests (PVTs), Operational User Ass integration and waveform porting co	sessments (Ol										
FY 2023 to FY 2024 Increase/Deck Funding decreased due to adjustme			ts for FY24.								
Title: SBIR/STTR Transfer									-	0.115	-
FY 2023 Plans: SBIR/STTR transfer											
FY 2023 to FY 2024 Increase/Deck Decrease due to budget decrease f											
				Accon	nplishment	s/Planned P	Programs Su	btotals	17.042	3.023	2.85
C. Other Program Funding Summ	arv (\$ in Milli	ons)									
			<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>					Cost To	1
Line Item	<u>FY 2022</u>	<u>FY 2023</u>	<u>Base</u>	000	<u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 202</u>	7 FY 2028	Complete	Total Cos
• FA2: Rifleman Radio (RR)	10.646	1.403	1.460	-	1.460	1.484	1.519	1.63			
B95004: Handheld Manpack	724.099	660.270	765.109	-	765.109	738.648	737.854	753.10	0 762.583	6 Continuing	Continuin
Small Form Fit (HMS)											

MP Radio is currently executing a March 2017 approved acquisition strategy to procure Non-Developmental Items (NDI). Utilizing a full and open competition strategy, the MP base contract was awarded to all potential industry partners. The MP contract was awarded on 26 February 2016, and procures NDI MP radios for use in a classified environment. As laid out in the Acquisition Strategy, the current candidate NDI radios have demonstrated through testing, compliance with program requirements; assess effectiveness, suitability, and survivability; to obtain material release(s) for Full Rate Production (FRP). The MP is currently capable of running the

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: March 2023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 5	PE 0605042A / Tactical Network Radio Sys	FA1 / Man	pack Radio
	tems (Low-Tier)		

following waveforms: Single Channel Ground and Airborne Radio System (SINCGARS), Warrior Robust Enhanced Network (WREN) TSM, as well as legacy Satellite Communications (SATCOM), and the modernized, Navy managed Mobile User Objective System (MUOS) TACSAT waveform.

On 14 May 2019, the ITN gained approval from the Army Acquisition Executive to execute via the Middle Tier of Acquisition (MTA) Rapid Prototyping pathway. The ITN Rapid Prototyping MTA approach provides for the use of innovative technologies to rapidly develop fieldable prototypes to demonstrate new capabilities and meet emerging military needs. The ITN acquisition approach is based on integration of Commercial-Off-The-Shelf (COTS), Non-Developmental Item (NDI), and Government-Off-The-Shelf (GOTS) components. The accelerated schedule for the procurement of experimentation equipment was directed by the Army and driven by the ITN Directed Requirement (DR). Contract execution for ITN Non-POR equipment is being leveraged from existing indefinite delivery indefinite quantity (IDIQ) contracts. All contracts are competitive awards using FAR approved contracting vehicles, such as DLA, CHS, NASA SEWP, GSA (IDIQ) or direct contracts that have been established after a market survey has been completed. In FY 2023 and out, this funding transitioned to PE 0605236A, CQ1 and Project FA1 should no longer be identified for using Middle Tier of Acquisition (MTA) Rapid Prototyping pathway as it no longer applies.

In 2023, HMS will begin the process of conducting a re-compete of the existing MP IDIQ contract in support of an FY26 award. The re-compete will include upgrades to the base contract including specific sustainment requirements, updated quantity pricing schedules, and other lessons-learned from the previous IDIQ.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2024 Arm	y								Date:	March 20	23	
Appropriation/Budg 2040 / 5	et Activity	/				PE 060	R-1 Program Element (Number/Name)Project (Number/Name)PE 0605042A / Tactical Network Radio SysFA1 / Manpack Radiotems (Low-Tier)FA1 / Manpack Radio								
Management Servic	es (\$ in M	lillions)	ſ	FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management Office Support	Various	PEO C3T & CECOM : Various; APG, MD	3.220	1.806	Jan 2022	0.118	Apr 2023	0.110		-		0.110	0.000	5.254	-
		Subtotal	3.220	1.806		0.118		0.110		-		0.110	0.000	5.254	N/A
Support (\$ in Millior	ıs)			FY 2	2022	FY 2	2023	FY 2 Ba	2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering/Technical Support	Various	PEO C3T, ARL, C5ISR, & ATC : Various	20.598	3.123	May 2022	1.738	Apr 2023	1.648		-		1.648	0.000	27.107	-
		Subtotal	20.598	3.123		1.738		1.648		-		1.648	0.000	27.107	N/A
Test and Evaluation	(\$ in Milli	ons)		FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Follow on Delta Development & Testing	Various	EPG : Ft. Huachuca	4.098	1.556	Jul 2022	1.167	Apr 2023	1.100		-		1.100	0.000	7.921	-
ITN Testing	Various	Various : TBD	3.684	10.557	Jun 2022	-		-		-		-	0.000	14.241	-
		Subtotal	7.782	12.113		1.167		1.100		-		1.100	0.000	22.162	N/A
			Prior Years	FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	31.600	17.042		3.023		2.858		-		2.858	0.000	54.523	N/A

xhibit R-4, RDT&E Schedule Profile: PB 2024 ppropriation/Budget Activity 040 / 5			F	PE 060		I Tactica		mber/Nan work Radi		Project FA1 / M	: (Nun	nber/			
Event Name	FY 2022		FY 202			2024	<u> </u>	Y 2025		FY 2026			2027		r 2028
ITN CS23 Prototyping & Testing	1 2 3 4		2 3	4	1 2	3 4	1	2 3 4	1	2 3	4 1	2	3 4	1 2	3
TN CS23 Soldier Touch Point	ITN CS23 STP														
TN CS23 Design Decision	ITN CS23 Design	Decision													
Armored Brigade Combat Team (ABCT) Characterization	ABCT Charact	erization													
Performance Verification Test (PVT)	PVT														
Performance Verification Test (PVT) FY22	PVT														
Operational User Assessment (OUA) FY23		OUA													
Performance Verification Test (PVT) FY23			PVT												
Operational User Assessment (OUA) FY23 #2															
Performance Verification Test (PVT) FY24						PVT									
Operational User Assessment (OUA) FY24						00/									
Performance Verification Test (PVT) FY25								PVT							
Operational User Assessment (OUA) FY25								•	UA.						

xhibit R-4, RDT&E Schedule Profile: PE ppropriation/Budget Activity 040 / 5		1	R-1 Program Eleme PE 0605042A <i>I Tactic</i> <i>tems (Low-Tier)</i>	nt (Number/Name) cal Network Radio Sys		Date: March 202 lumber/Name) apack Radio	
Event Name	FY 2022	FY 202			FY 2026	FY 2027	FY 2028
Performance Verification Test (PVT) FY26	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
Operational User Assessment (OUA) FY26							
Performance Verification Test (PVT) FY27					00/	PVT	
Operational User Assessment (OUA) FY27							
Performance Verification Test (PVT) FY28							PVT
Operational User Assessment (OUA) FY28							

nibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Marc	ch 2023		
propriation/Budget Activity 40 / 5		Element (Numbe / Tactical Network r)	Project (Number/Name) FA1 / Manpack Radio				
	Schedule Details	6					
		St	art	E	nd		
Events		Quarter	Year	Quarter	Year		
ITN CS23 Prototyping & Testing		2	2021	2	2022		
ITN CS23 Soldier Touch Point		2	2022	2	2022		
ITN CS23 Design Decision		3	2022	3	2022		
Armored Brigade Combat Team (ABCT) Characterization		3	2022	3	2022		
Performance Verification Test (PVT)		1	2022	1	2022		
Performance Verification Test (PVT) FY22		4	2022	4	2022		
Operational User Assessment (OUA) FY23		1	2023	1	2023		
Performance Verification Test (PVT) FY23		3	2023	3	2023		
Operational User Assessment (OUA) FY23 #2		4	2023	4	2023		
Performance Verification Test (PVT) FY24		3	2024	3	2024		
Operational User Assessment (OUA) FY24		4	2024	4	2024		
Performance Verification Test (PVT) FY25		3	2025	3	2025		
Operational User Assessment (OUA) FY25		4	2025	4	2025		
Performance Verification Test (PVT) FY26		3	2026	3	2026		
Operational User Assessment (OUA) FY26		4	2026	4	2026		
Performance Verification Test (PVT) FY27		3	2027	3	2027		
Operational User Assessment (OUA) FY27		4	2027	4	2027		
Performance Verification Test (PVT) FY28		3	2028	3	2028		
Operational User Assessment (OUA) FY28		4	2028	4	2028		

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army								Date: March 2023				
2040 / 5						am Elemen 42A <i>I Tactica</i> 7- <i>Tier</i>)	•	,	Project (Number/Name) FA2 I Rifleman Radio (RR)			
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
FA2: Rifleman Radio (RR)	-	10.646	1.403	1.460	-	1.460	1.484	1.519	1.637	1.656	0.000	19.805
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Network Modernization Priority. This effort supports the Army Network Modernization Strategy Line of Effort 1, Unified Network.

Handheld radios provide both Classified and Unclassified communications. Leader radios provide the Single Channel Ground and Airborne Radio System (SINCGARS) legacy waveform for Classified and Unclassified communications. Additionally, Leader radios also provide advanced waveforms (e.g. TrellisWare TSM) that provide SBU communications. The Leader Radio received a positive Full Rate Production (FRP) decision in 2021. The HMS program plans to host a PVT and OUA annually to verify vendor enhancements. The Single Channel Data Radio (SCDR) is an Associated Support Items of Equipment (ASIOE) for the Integrated Visual Augmentation System (IVAS).

The Handheld, Manpack, and Small Form Fit (HMS) radio systems serve as the backbone of the Integrated Tactical Network (ITN) architecture, supporting a converged Mission Command network. FY2019 - FY2022 Research Development Test & Evaluation (RDT&E) funds supported ITN testing and evaluation, of which HMS is a key component, in addition to HMS Program of Record (PoR) test events. The ITN tests supported mature system development, integration, and demonstration in support of ITN evaluation to include: concept refinement, characterization, data collection, demos, integrated testing, and operational assessments. The ITN is a warfighter-enabling System of Systems comprised of key networking components including HMS PoR radio systems, advanced high capacity commercial radios, commercial phone technologies, and advanced radio-application gateway integration and interoperability technologies. These ITN technologies increase transport options and support a converged Mission Command network. The ITN introduces a new Secure But Unclassified (SBU) security domain enhancing Mission Partner interoperability and significantly reducing key distribution and other security-related burdens for the Soldier at lower echelons. Starting in FY 2023, ITN funds were realigned to PE 0605236A, CQ1.

HMS completed Initial Operational Test and Evaluation (IOT&E) during January 2021. Following the IOT&E test event, HMS outlined specific actions required to resolve test findings from the IOT&E event. FY2023 and beyond RDT&E funding supports testing activities including laboratory technical testing, Performance Verification Tests (PVTs), and Operational User Assessments (OUAs). Each of these events provides both technical and operational user feedback on increased capabilities, future waveform incorporation, soldier usability, and life-cycle sustainment improvements. Handheld radios provide voice/data communication to the expeditionary Warfighter with an on-the-move, at-the-halt, and stationary Line of Sight (LOS)/Beyond Line of Sight (BLOS) capability for both dismounted personnel and platforms. Handheld radio systems are software reprogrammable, networkable, multi-mode systems capable of simultaneous voice and data communication. Handheld radios will support a variety of other platforms, including tactical End User Devices (EUD) voice and data needs. HMS provides tailorable and scalable, software-defined radio systems meeting U.S. Army, Air Force, Navy, Marine Corps, and Special Operations Command communications needs.

Title: Program Management1.2680.0580Description: Program management includes overall management of program execution, major events, reporting, funds execution, contract management, and logistical support. Includes participation in program planning and Integrated Product Team meetings.1.2680.0580FY 2023 Plans: FY 2023 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.2680.0580FY 2024 Plans: FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.7250.9171FY 2024 Plans: FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.7250.9171FY 2024 Plans: FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.7250.9171FY 2024 Funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.7250.9171FY 2024 Funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.7250.9171FY 2024 Funds will facilitate technical support to HMS Handheld products.FY 20241.7250.9171FY 2023 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve perf	Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: M	larch 2023			
and open system architectures to decrease future integration and waveform porting costs. The total cost of the Integrated Tactical Network (ITN) Middle Tier of Acquisition effort is \$76 million RDT&E from FY23 to FY28. The ITN MTA is fully funded across Future Years Defense Program. B. Accomplishments/Planned Programs (\$ in Millions) FY 2022 FY 2023 FY 2023 Ttile: Program Management 1.268 0.058 0 Description: Program management includes overall management of program execution, major events, reporting, funds execution, contract management, and logistical support. Includes participation in program planning and Integrated Product Team meetings. FY 2023 Plans: FY 2023 FY 2023 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contract support. FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contract support. Ttile: HMS Engineering/Technical Support to HMS Handheld products. FY 2023 funds will provide technical asystems engineering support to evaluate technical alternatives and perform communication architecture analysis to include IR. FY 2023 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication strategy to include LR. FY 2024 Plans: FY 2024 Plans: FY 2024 Plans: FY 2024 Funds will provide technical systems engineering support to evaluate technical alternatives and perform communication strategy to include LR. FY 2023 Plans: FY 2024 Funds will provide technical systems engineering support to evaluate technical alternatives and perform communication strategy to include LR. FY 2024 Plans: FY 202							
Future Years Defense Program. FY 202 FY 2023 FY 2024			essments (OUAs), e	xamination of	f modular		
Title: Program Management1.2680.0580Description: Program management includes overall management of program execution, major events, reporting, funds execution, contract management, and logistical support. Includes participation in program planning and Integrated Product Team meetings.1.2680.0580FY 2023 Plans: FY 2023 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.2680.0580FY 2024 Plans: FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.7250.9171FY 2024 Plans: FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.7250.9171FY 2024 Plans: FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.7250.9171FY 2024 Funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.7250.9171FY 2024 Funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.1.7250.9171FY 2024 Funds will facilitate technical support to HMS Handheld products.FY 20241.7250.9171FY 2023 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve perf		tion effort is \$76 million RDT&E from FY23 to F	28.?The ITN MTA is	s fully funded	across the		
Description: Program management includes overall management of program execution, major events, reporting, funds Image: Contract management, and logistical support. Includes participation in program planning and Integrated Product Team meetings. FY 2023 Plans: FY 2023 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support. Image: Contractor support. FY 2024 Plans: FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support. Image: Contractor support. FY 2024 Funds Image: Contractor support. Image: Contractor support. Title: HMS Engineering/Technical Support Image: Contractor support. Image: Contractor support. FY 2023 funds will provide technical analysis support to HMS Handheld products. Image: Contractor support. Image: Contractor support. FY 2023 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve tactical radio objectives. Funds will facilitate technical test support for candidate products utilized within ITN's iterative evaluation and capability implementation strategy to include LR. FY 2024 Plans: FY 2024 Plans: FY 2024 Plans: FY 2024 Plans: FY 2024 Plans: FY 2024 Plans: FY 2024 Plans:	B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024		
execution, contract management, and logistical support. Includes participation in program planning and Integrated Product Team meetings. FY 2023 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support. FY 2024 Plans: FY 2024 Plans: FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support. Title: HMS Engineering/Technical Support 1.725 0.917 1 Description: Overall technical analysis support to HMS Handheld products. FY 2023 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve tactical radio objectives. Funds will facilitate technical test support for candidate products utilized within ITN's iterative evaluation and capability implementation strategy to include LR. FY 2024 Plans: F	Title: Program Management		1.268	0.058	0.058		
FY 2023 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Image: Contractor support. FY 2024 Plans: FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support. Image: Contractor support. Title: HMS Engineering/Technical Support 1.725 0.917 1 Description: Overall technical analysis support to HMS Handheld products. Image: FY 2023 Plans: Image: FY 2023 Flans: Image: FY 2023 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve tactical radio objectives. Funds will facilitate technical test support for candidate products utilized within ITN's iterative evaluation and capability implementation strategy to include LR. FY 2024 Plans: FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication Image: FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication Image: FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication Image: FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication Image: FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication	execution, contract management, and logistical support. Includes participation		eam				
FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.Implement HMS acquisition strategy - to include Matrix and Contractor support.Title: HMS Engineering/Technical Support1.7250.9171Description: Overall technical analysis support to HMS Handheld products.Implement alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve tactical radio objectives. Funds will facilitate technical test support for candidate products utilized within ITN's iterative evaluation and capability implementation strategy to include LR.FY 2024 Plans: FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication active tactical radio objectives. Funds will facilitate technical test support for candidate products utilized within ITN's iterative evaluation and capability implementation strategy to include LR.FY 2024 Plans: FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communicationImplementation	FY 2023 funds will provide overall management and oversight to implement H	HMS acquisition strategy - to include Matrix and					
Description: Overall technical analysis support to HMS Handheld products. FY 2023 Plans: FY 2023 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve tactical radio objectives. Funds will facilitate technical test support for candidate products utilized within ITN's iterative evaluation and capability implementation strategy to include LR. FY 2024 Plans: FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication	FY 2024 funds will provide overall management and oversight to implement H	HMS acquisition strategy - to include Matrix and					
FY 2023 Plans: FY 2023 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve tactical radio objectives. Funds will facilitate technical test support for candidate products utilized within ITN's iterative evaluation and capability implementation strategy to include LR. FY 2024 Plans: FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication	Title: HMS Engineering/Technical Support		1.725	0.917	1.019		
FY 2023 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve tactical radio objectives. Funds will facilitate technical test support for candidate products utilized within ITN's iterative evaluation and capability implementation strategy to include LR. FY 2024 Funds will provide technical systems engineering support to evaluate technical alternatives and perform communication FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication	Description: Overall technical analysis support to HMS Handheld products.						
FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication	FY 2023 funds will provide technical systems engineering support to evaluate architecture analysis to identify alternatives to reduce cost, improve performa will facilitate technical test support for candidate products utilized within ITN's	nce, and achieve tactical radio objectives. Fund	s				
architecture analysis to identify alternatives to reduce cost, improve performance, and achieve tactical radio objectives.	FY 2024 funds will provide technical systems engineering support to evaluate		ion				
FY 2023 to FY 2024 Increase/Decrease Statement: Budget increased from FY2023 to FY2024 as a result of changes in labor rates for projected Engineering/Technical Support.		es for projected Engineering/Technical Support.					
Title: Test and Evaluation 7.653 0.374 0	<i>Title:</i> Test and Evaluation		7.653	0.374	0.383		

Exhibit R-2A, RDT&E Project Just	stification: PB	2024 Army							Date: Ma	arch 2023		
									o ject (Number/Name) 2 I Rifleman Radio (RR)			
B. Accomplishments/Planned Pr	ograms (\$ in N	<u>/lillions)</u>							FY 2022	FY 2023	FY 2024	
Description: Handheld's Test and system: Radio Frequency perform addition to operational environmer on the Leader Radio, served as ris facilitated future procurement for F Performance Verification Tests (P	ance, security, ital performance k reduction and ull Rate Produc	Reliability, A e requireme d Operationa ction and inf	vailability & nts as per th al Test (OT) ormed requir	Maintainabili e Capability preparations red delta test	ty, and surv Production in support o	vability requ Document. <i>A</i> f FRP. Resu	lirements, in All previous te Ilts from the f	esting OT				
FY 2023 Plans: FY 2023 Research Development T Tests (PVTs), Operational User As integration and waveform porting of	sessments (Ol											
FY 2024 Plans: FY 2024 Research Development T (PVTs), Operational User Assessmintegration and waveform porting of	nents (OUAs),											
FY 2023 to FY 2024 Increase/De Budget increased from FY2023 to			ges in labor	rates for pro	iected Test	and Evaluat	on support.					
<i>Title:</i> SBIR/STTR Transfer			0						-	0.054	-	
Description: Funding transferred	in accordance v	with Title 15	USC §638									
FY 2023 Plans: Funding transferred in accordance	with Title 15 U	SC §638										
FY 2023 to FY 2024 Increase/Det Funding transferred in accordance												
				Accon	nplishment	s/Planned F	rograms Su	btotals	10.646	1.403	1.46	
C. Other Program Funding Sum	nary (\$ in Milli	ons)										
			FY 2024	FY 2024	FY 2024					Cost To		
Line Item • FA1: Manpack Radio	<u>FY 2022</u> 17.042	<u>FY 2023</u> 3.023	<u>Base</u> 2.858	<u>000</u> -	<u>Total</u> 2.858	<u>FY 2025</u> 2.921	<u>FY 2026</u> 1.976	FY 202 7 6.96		<u>Complete</u> 0.000		
PE 0605042A: <i>Tactical Network Ra</i>				UNCLAS								

PE 0605042A: *Tactical Network Radio Systems (Low-Tier...* Army

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Exhibit R-2A, RDT&E Project Just	ification: PB	2024 Army							Date: Ma	rch 2023	
Appropriation/Budget Activity 2040 / 5				PE 0	Program Eler 0605042A / Ta s (Low-Tier)	•	,		Number/Na eman Radio		
C. Other Program Funding Summ	ary (\$ in Milli	ons)	FY 2024	FY 2024	FY 2024					Cost To	
Line Item • B95004: Handheld Manpack Small Form Fit (HMS)	<u>FY 2022</u> 724.099	<u>FY 2023</u> 660.270	<u>Base</u> 765.109	000		<u>FY 2025</u> 738.648	<u>FY 2026</u> 737.854	<u>FY 2027</u> 753.100		Complete	<u>Total Cost</u> Continuing

Remarks

D. Acquisition Strategy

On 13 September 2016 the Army Acquisition Executive approved a decrease to the Basis of Issue (BOI) for the single channel RR, increase the BOI for the two channel LR and move forward with acquisition activities for the two channel LR. An acquisition strategy addendum adding LR was approved in March 2017. The addendum continued the multi-vendor approach utilizing the existing Indefinite Delivery Indefinite Quantity (IDIQ) RR base contract (awarded 29 April 2015) to on-ramp LR capabilities (18 September 2018). The LR effort is a separate competition under the Handheld radio suite. As laid out in the acquisition strategy, these candidate non-developmental radios will need to demonstrate through testing, compliance with program requirements; assess effectiveness, suitability, and survivability; to obtain material release for Full Rate Production (FRP).

The LR will simultaneously run Single Channel Ground and Airborne Radio System (SINCGARS) and other advanced networking waveforms, in one radio with both handheld and mounted configurations, for fixed and mobile sites.

In 2022, HMS began the process of conducting a re-compete of the existing LR IDIQ contract in support of an FY25 award. The re-compete will include upgrades to the base contract including specific sustainment requirements, updated quantity pricing schedules, and other lessons-learned from the previous IDIQ.

In 2021, SCDR transitioned to the HMS program. SCDR utilizes an Other Transaction Authority (OTA) from an existing IDIQ.

On 14 May 2019, the ITN gained approval from the Army Acquisition Executive to execute via the Middle Tier of Acquisition (MTA) Rapid Prototyping pathway. The ITN Rapid Prototyping MTA approach provides for the use of innovative technologies to rapidly develop fieldable prototypes to demonstrate new capabilities and meet emerging military needs. The ITN acquisition approach is based on integration of Commercial-Off-The-Shelf (COTS), Non-Developmental Item (NDI), and Government-Off-The-Shelf (GOTS) components. The accelerated schedule for the procurement of experimentation equipment was directed by the Army and driven by the ITN Directed Requirement (DR). Contract execution for ITN Non-POR equipment is being leveraged from existing indefinite delivery indefinite quantity (IDIQ) contracts.

Exhibit R-3, RDT&E	-		2024 Army	y		D 4 D							March 20	23	
Appropriation/Budg 2040 / 5	et Activity	/				R-1 Program Element (Number/Name)Project (Number/Name)PE 0605042A / Tactical Network Radio SysFA2 / Rifleman Radio (RR)tems (Low-Tier)FA2 / Rifleman Radio (RR)									
Management Servic	es (\$ in M	illions)	ſ	FY 2022		FY 2	2023	FY 2024 Base			2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management Office Support	Various	PEO C3T & CECOM : Various; APG, MD	3.031	1.268	Jan 2022	0.058	Apr 2023	0.058		-		0.058	0.000	4.415	Continuin
		Subtotal	3.031	1.268		0.058		0.058		-		0.058	0.000	4.415	N/A
Support (\$ in Millior	ıs)			FY 2	2022	FY 2	2023	FY 2 Ba			2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
HMS Engineering/ Technical Support	Various	PEO C3T, ARL, C5ISR, & ATC : Various	7.567	1.725	Jan 2022	0.971	Apr 2023	1.019		-		1.019	0.000	11.282	-
		Subtotal	7.567	1.725		0.971		1.019		-		1.019	0.000	11.282	N/A
Test and Evaluation	(\$ in Milli	ons)		FY 2	2022	FY 2	2023	FY 2 Ba	2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Follow on Delta Development & Testing	Various	EPG : Fort Huachuca	5.738	1.064	Jul 2022	0.374	Apr 2023	0.383		-		0.383	0.000	7.559	-
ITN Testing	Various	Various : TBD	17.310	6.589	Mar 2022	-		-		-		-	0.000	23.899	-
		Subtotal	23.048	7.653		0.374		0.383		-		0.383	0.000	31.458	N/A
			Prior Years	FY 2	2022	FY 2	2023	FY 2 Ba			2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	33.646	10.646		1.403		1.460		-		1.460	0.000	47.155	N/A

xhibit R-4, RDT&E Schedule Profile: PB 2024 ppropriation/Budget Activity 040 / 5					PE	0605		Eleme I Tactio r)								t (Nu Riflen))			
Event Name	F	Y 2022		FY 2	2023		FY	2024		FY	202	5		FY 2	026			FY 2	2027	,	F	Y 20	028
	1 2	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
ITN CS23 Soldier Touch Point	ITN	CS23 STP																					
ITN CS23 Prototyping & Testing	ITN CS23	Prototyping &	Testing																				
ITN CS23 Design Decision	m	A CS23 Design	Decisio	n																			
Armored Brigade Combat Team (ABCT) Characterization		ABCT Charact																					
Performance Verification Test (PVT) FY22		PVT																					
Operational User Assessment (OUA) FY23			AUO																				
Performance Verification Test (PVT) FY23					VT																		
Operational User Assessment (OUA) FY23 #2				ſ																			
Performance Verification Test (PVT) FY24					U		ļ	PVT															
Operational User Assessment (OUA) FY24																							
Performance Verification Test (PVT) FY25								0	Î		PVT												
Operational User Assessment (OUA) FY25											P'V I												
Performance Verification Test (PVT) FY26												OUA			VT								

xhibit R-4, RDT&E Schedule Profile: PE ppropriation/Budget Activity 040 / 5				r am Elemen 42A I Tactic v-Tier)	Date: March 2023 (Number/Name) fleman Radio (RR)					
Event Name	FY 2022	FY 20	23	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028		
	1 2 3 4	1 2 3	3 4 1	2 3 4	1 2 3 4 1	2 3 4	1 2 3 4	1 2 3		
Operational User Assessment (OUA) FY26						00	14			
Performance Verification Test (PVT) FY27							PVT			
Operational User Assessment (OUA) FY27										
Performance Verification Test (PVT) FY28								PVT		
Operational User Assessment (OUA) FY28										
							1			

hibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: Marc	h 2023					
propriation/Budget Activity 10 / 5		1 Program Element (Number/Name)Project (Number/Name)E 0605042A I Tactical Network Radio SysFA2 I Rifleman Radio (RR)ms (Low-Tier)FA2 I Rifleman Radio (RR)							
	Schedule Details								
	Start		En	d					
Events	Quarter	Year	Quarter	Year					
ITN CS23 Soldier Touch Point	2	2022	2	2022					
ITN CS23 Prototyping & Testing	2	2021	2	2022					
ITN CS23 Design Decision	3	2022	3	2022					
Armored Brigade Combat Team (ABCT) Characterization	3	2022	3	2022					
Performance Verification Test (PVT) FY22	4	2022	4	2022					
Operational User Assessment (OUA) FY23	1	2023	1	2023					
Performance Verification Test (PVT) FY23	3	2023	3	2023					
Operational User Assessment (OUA) FY23 #2	4	2023	4	2023					
Performance Verification Test (PVT) FY24	3	2024	3	2024					
Operational User Assessment (OUA) FY24	4	2024	4	2024					
Performance Verification Test (PVT) FY25	3	2025	3	2025					
Operational User Assessment (OUA) FY25	4	2025	4	2025					
Performance Verification Test (PVT) FY26	3	2026	3	2026					
Operational User Assessment (OUA) FY26	4	2026	4	2026					
Performance Verification Test (PVT) FY27	3	2027	3	2027					
Operational User Assessment (OUA) FY27	4	2027	4	2027					
Performance Verification Test (PVT) FY28	3	2028	3	2028					
Operational User Assessment (OUA) FY28	4	2028	4	2028					

Exhibit R-2, RDT&E Budget Iten							Date: Marc	ch 2023					
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)						R-1 Program Element (Number/Name) PE 0605047A / Contract Writing System							
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	0.000	20.195	13.742	16.355	0.000	16.355	0.000	0.000	0.000	0.000	Continuing	Continuing	
FA7: Contract Writing System	-	20.195	13.742	16.355	-	16.355	-	-	-	-	Continuing	Continuing	

A. Mission Description and Budget Item Justification

The Army Contract Writing System (ACWS) will be the Army's next-generation, enterprise-wide contract writing, management, execution, and close-out software system. ACWS will facilitate the standardization of Army Procurement business processes and streamline the integration with Army Enterprise Resource Planning (ERP) systems. As a financial feeder system, ACWS will meet the full scope of Army contracting requirements, including those in secure and non-secure locations, those supporting combat or noncombat contingencies, those within or outside the borders of the Continental United States, those supporting grants and assistance agreements, and those performing weapons systems, construction, installation, other specialized contracting activities, and the Federal Financial Management Improvement Act of 1996.

Army pivoted to a Portfolio Approach that leverages existing Appian-based contract writing technology, maximizes share-ability and reuse across the DoD which minimizes the development effort, and includes iterative design, development and testing for the remaining Army-unique capability. The development portion of the approach includes on boarding USDA resources to act as the system integrator (SI) and leveraging Interagency Agreements (IAA). The existing capabilities that the Army intends to leverage include Virtual Contracting Enterprise (VCE), functionality within the Procurement Integrated Enterprise Environment (PIEE), System for Award Management (SAM), and other existing Robotic Process Automation (RPA) programs. The Army will also leverage the PIEE for ACWS hosting, with other DoD Service contract writing systems.

In FY2024 the program will continue ramping up resources to develop installation contracting capability for sites supporting General Funds Enterprise Business System (GFEBS) customers, non-FAR functionality (Grants, Coopertive Agreements, and Other Transaction Authority (OTAs)) and construction contracting capability. This effort is enabled by the development on the GFEBS interface and the Corps of Engineers Financial Management System (CEFMS) interface. This capability is necessary to displace the Standard Procurement System (SPS) and the Procurement Automated Data and Document System (PADDS).

FY2023 RDTE funding supports accreditation of the software and hosting environment, release of a Minimum Viable Product (MVP) which provides users current Contracting Information Technology capability (CON-IT) that enables the user to generate a solicitation, award, and modify documents in Uniform Contract Format (UCF). Initial deployment includes a sub-set of users from the National Guard Bureau and 411th Contracting Support Brigade. This funding also supports on-board of USDA resources and development of capabilities aligned to FY2023.

FY2024 RDTE Funding supports development of required functionality for contract administration and contract award, systems integration with CEFMS, Resident Management System (RMS), Logistics Modernization Program (LMP) and audit compliance. The system will add additional capability for complex weapons system contracting. This development is required to expand system use to remaining National Guard Users and Joint Base Activities, Corps of Engineers, Army Contracting Centers, as well as Depot users in FY2025. This funding also supports the implementation of a Continuous Integration Continuous Delivery (CI/CD) pipeline with automated testing capability.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 A	Army			Date:	March 2023
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA Development & Demonstration (SDD)	A 5: System		ement (Number/Name) Contract Writing System		
B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	20.960	23.487	0.000	-	0.000
Current President's Budget	20.195	13.742	16.355	-	16.355
Total Adjustments	-0.765	-9.745	16.355	-	16.355
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-9.745			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.765	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	16.355	-	16.355

Change Summary Explanation

FY2022 RDTE of \$7.162M rescinded as part of the FY2023 Appropriation language and not available for execution.

In FY2024 the program will continue ramping up resources to develop installation contracting capability for sites supporting General Funds Enterprise Business System (GFEBS) customers, non-FAR functionality (Grants, Coopertive Agreements, and Other Transaction Authority (OTAs)) and construction contracting capability. This effort is enabled by the development on the GFEBS interface and the Corps of Engineers Financial Management System (CEFMS) interface. This capability is necessary to displace the Standard Procurement System (SPS) and the Procurement Automated Data and Document System (PADDS).

Exhibit R-2A, RDT&E Project Ju	stification:	: PB 2024 A	rmy							Date: Marc	ch 2023	
Appropriation/Budget Activity 2040 / 5					R-1 Progra PE 060504		•		Project (N FA7 / Cont		,	
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
FA7: Contract Writing System	-	20.195	13.742	16.355	-	16.355	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Army Contract Writing System (ACWS) will be the Army's next-generation, enterprise-wide contract writing, management, execution, and close-out software system. ACWS will facilitate the standardization of Army Procurement business processes and streamline the integration with Army Enterprise Resource Planning (ERP) systems. As a financial feeder system, ACWS will meet the full scope of Army contracting requirements, including those in secure and non-secure locations, those supporting combat or noncombat contingencies, those within or outside the borders of the Continental United States, those supporting grants and assistance agreements, and those performing weapons systems, construction, installation, other specialized contracting activities, and the Federal Financial Management Improvement Act of 1996.

Army pivoted to a Portfolio Approach that leverages existing Appian-based contract writing technology, maximizes share-ability and reuse across the DoD which minimizes the development effort, and includes iterative design, development and testing for the remaining Army-unique capability. The development portion of the approach includes on boarding USDA resources to act as the system integrator (SI) and leveraging Interagency Agreements (IAA). The existing capabilities that the Army intends to leverage include Virtual Contracting Enterprise (VCE), functionality within the Procurement Integrated Enterprise Environment (PIEE), System for Award Management (SAM), and other existing Robotic Process Automation (RPA) programs. The Army will also leverage the PIEE for ACWS hosting, with other DoD Service contract writing systems.

In FY2024 the program will continue ramping up resources to develop installation contracting capability for sites supporting General Funds Enterprise Business System (GFEBS) customers, non-FAR functionality (Grants, Coopertive Agreements, and Other Transaction Authority (OTAs)) and construction contracting capability. This effort is enabled by the development on the GFEBS interface utilizing the Global Exchange (GEX) and the Corps of Engineers Financial Management System (CEFMS) interface. This capability is necessary to displace the Standard Procurement System (SPS) and the Procurement Automated Data and Document System (PADDS).

FY2024 RDTE Funding supports development of required functionality for contract administration and contract award, systems integration with CEFMS, Resident Management System (RMS), Logistics Modernization Program (LMP) and audit compliance. The system will add additional capability for complex weapons system contracting. This development is required to expand system use to remaining National Guard Users and Joint Base Activities, Corps of Engineers, Army Contracting Centers, as well as Depot users in FY2025. This funding also supports the implementation of a Continuous Integration Continuous Delivery (CI/CD) pipeline with automated testing capability.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Program Office	3.203	2.732	2.660

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: M	arch 2023	
	R-1 Program Element (Number/Name) PE 0605047A / Contract Writing System	-	ct (Number/N Contract Writ		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024
Description: These resources in the ACWS Program Management Office inclusupport for capability development, enterprise architecture, contract management planning, life cycle planning, risk management, and schedule management.		ctor			
For FY2023, Program Office also includes SIBR \$0.523M funding transferred in value represents a percentage of the program's funding for that fiscal year.	accordance with Title 15 U.S. Code 638. Sl	BR			
FY 2023 Plans: Program management support in the ACWS Government Program Management DASA(P) efforts for resource planning, capability development, life cycle planning facilities. FY2023 will continue to focus on planning and execution of the solution	ng, risk management, schedule managemer				
FY 2024 Plans: FY2024 funding for program management support in the ACWS Government Planport, and CECOM for resource planning, capability development, life cycle pland facilities. FY2024 will continue to focus on planning and execution of the so	lanning, risk management, schedule manag				
FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease in FY2024 from FY2023 is a reflection of shifting functions to including functions for audit support and system integrator management staff.	the appropriate areas of product developme	ent,			
Title: Product Development			11.120	8.527	11.937
Description: Product development is responsible for design and development of functional team of Government and contractor staff analyzes and designs the rein satisfying system requirements and in accordance with Army standards. Effor infrastructure and managed services are also included as a requirement of the services are also as a requirement of the services are also included as a requirement of the services are also as a requ	equirements to efficiently ensure completene rts required by system interface partners, ho	ss			
FY 2023 Plans: FY2023 RDTE funding supports accreditation of the software and hosting enviro (MVP) which provides users current Contracting Information Technology capab solicitation, award, and modify documents in Uniform Contract Format (UCF).					
FY 2024 Plans: FY2024 RDTE funding builds required functionality leveraging the IAA with USE continues on-board of USDA resources, furthers construction contracting, financial administration and contract award, systems integration with CEFMS, Resident N	cial system integration and standards, contra				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: N	arch 2023	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605047A / Contract Writing System	Project (Number/N FA7 / Contract Writ	,	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Modernization Program (LMP) and audit compliance. The system contracting. This area also includes functional support for busines software development.				
FY 2023 to FY 2024 Increase/Decrease Statement: Increase in FY2024 funding reflects development of required funct Continuous Integration Continuous Development (CI/CD) pipeline.		ı		
Title: Security		2.450	0.892	0.264
Description: Security related costs include Information Assurance cyber security support for the Cloud Solution Provider's governme Authorization to Test (IATT) and Authority to Operate (ATO) control	nt approved hosting environment complementing the Inter			
FY 2023 Plans: FY2023 funding supports the development and completion of cont for the new strategy,	rols associated with accreditation and cyber security regu	lations		
FY 2024 Plans: FY2024 funding supports the maintenance of the accreditation and strategy.	d compliance with cyber security regulations for the new			
FY 2023 to FY 2024 Increase/Decrease Statement: FY2023 to FY2024 decrease reflects economies of scale gained fin Agency (DLA).	rom a shared hosting environment with the Defense Logis	tics		
<i>Title:</i> Test & Evaluation		3.422	1.089	1.494
Description: Costs associated with the test and evaluation function they are satisfactorily addressed through design analysis and deve implementation of a CI/CD pipeline with automated testing capability	elopment of test scripts. This funding also supports the	3		
FY 2023 Plans: FY2023 resources support the planning and test of the new solution JITC, and other users from the field.	on through Army partners, including interface partners, AT	EC,		
		1		

Exhibit R-2A, RDT&E Project Justif	fication: PB	2024 Army							Date: M	arch 2023	
Appropriation/Budget Activity					rogram Eler				t (Number/N		
2040 / 5				PE 06	05047A / Co	ntract Writin	g System	FA7 / 0	Contract Writ	ing System	
B. Accomplishments/Planned Prog	rams (\$ in I	<u>Millions)</u>						Γ	FY 2022	FY 2023	FY 2024
FY2024 resources supports continuo in coordination with field users. This capability.								ments			
FY 2023 to FY 2024 Increase/Decre Funding increase in FY2024 from FY agencies to an agile development fra	2023 is a ref	lection of sh	•		•••	veraging inc	lependent tes	it			
<i>Title:</i> SBIR/STTR									-	0.502	-
Description: Funding transferred in a	accordance	with Title 15	USC §638								
FY 2023 Plans: Funding transferred in accordance w FY 2023 to FY 2024 Increase/Decre Funding transferred in accordance w	ase Statem	ent:									
				Accon	nplishment	s/Planned P	rograms Sul	ototals	20.195	13.742	16.35
C. Other Program Funding Summa	rv (\$ in Milli	ons)									
<u> </u>	· j (¥ ··· ·····	<u>e</u>	FY 2024	FY 2024	<u>FY 2024</u>					Cost To	<u> </u>
Line Item	<u>FY 2022</u>	FY 2023	Base	000	<u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 202</u>	7 FY 202	<u>Complete</u>	Total Cos
• B66001: Contract Writing System	14.957	4.075	6.061	-	6.061	14.226	9.858	10.06	-		
• OMA - ERPB / 423612000 / 5T0: ACWS Sustainment OMA	12.826	6.602	11.426	-	11.426	9.134	9.472	10.25	0 10.250	0.000	69.96
Remarks FY2022 OPA of \$12.626M rescinded	l as part of th	ne FY23 App	propriation la	nguage and	not available	e for executi	on.				
FY2024 OPA funds support training	material dev	elopment, de	edicated train	ning support	personnel, a	and software	licenses.				

FY2024 OMA funds will be used for sustainment of sites that have already been deployed, license maintenance, hosting, sustainment, cyber security posture activities, and service desk activities.

D. Acquisition Strategy

Based on Army Senior leadership direction, the Army pivoted to a Portfolio Approach that leverages existing technologies, maximizes share-ability and reuse across the DoD, and includes iterative design, development and testing for the remaining capability required for Army users. The overall approach includes on boarding USDA resources to act as the system integrator (SI), leveraging an Interagency Agreement (IAA) and using existing capabilities across DoD in order to minimize the

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605047A / Contract Writing System	Project (Number/Name) FA7 / Contract Writing System
development effort. These capabilities include use of functionalit System for Award Management (SAM), and other existing Robot PADDS and enables contracting business intelligence analysis.		
The Army is collaborating with the United States Department of A development and delivery. The program has transitioned to the S which informed development and resource requirements. The pix testing and deployment to provide a flexible system responsive to	Scaled Agile development Framework (SAFe) and conduct vot implements Continuous Integration Continuous Deliver	ed a discovery (risk reduction) effort in 2022,
In FY2022, the program refined its acquisition plan following the and realignment for agile execution, establishment of a schedule selection and stand-up.		
In FY2023, the Army established an IAA with Defense Logistics a for cloud hosting, accreditation, and Identity Credential Access M license to support developer and user access. The Army will establish	Anagement (ICAM) requirements. Additionally, the progra	am procured an Appian core contract writing
The ACWS program is executing two parallel activities: (1) deplo FY2023 and (2) using the current CON-IT capability as a technic		
In FY2024, the program will continue development of required fu Management System (RMS), Logistics Modernization Program (contracting. This development is required to expand system use Centers, as well as Depot users in FY2025. The program intende	LMP) and audit compliance. The system will add additiona to remaining National Guard Users and Joint Base Activitie	I capability for complex weapons system es, Corps of Engineers, Army Contracting

Appropriation/Budg 2040 / 5	et Activity	'						ement (Nu Contract V				(Number ontract W	r /Name) /riting Syste	'em	
Management Servic	es (\$ in M	illions)		FY 2	022	FY 2	023	FY 2 Bas	-	FY 2 OC	2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Office	Various	PdM ACWS : Arlington, VA	31.464	3.203	Oct 2021	2.732	Oct 2023	2.660		-		2.660	0.000	40.059	-
SBIR/STTR	TBD	Various : Various	-	-		0.502		-		-		-	0.000	0.502	-
		Subtotal	31.464	3.203		3.234		2.660		-		2.660	0.000	40.561	N//
Product Developme	nt (\$ in Mi	illions)		FY 2022		FY 2023		FY 2 Bas	-	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	Various	PdM ACWS : Arlington, VA	77.426	11.120	Oct 2021	8.527	Oct 2023	11.937		-		11.937	0.000	109.010	-
		Subtotal	77.426	11.120		8.527		11.937		-		11.937	0.000	109.010	N/A
Support (\$ in Millior	າຣ)			FY 2	022	FY 2	023	FY 2 Bas		FY 2 OC	2024 CO	FY 2024 Total	·		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Security	MIPR	PdM ACWS : Arlington, VA	4.966	2.450	Oct 2021	0.892	May 2023	0.264		-		0.264	0.000	8.572	-
												0.004			N1/
		Subtotal	4.966	2.450		0.892		0.264		-		0.264	0.000	8.572	N/A
Test and Evaluation	(\$ in Milli	Subtotal	4.966	2.450 FY 2	022	0.892 FY 2	023	0.264 FY 2 Bas	-	- FY 2 OC	2024 CO	0.264 FY 2024 Total	0.000	8.572	IN/#
Test and Evaluation	Contract Method & Type	Subtotal ons)	4.966 Prior Years		022 Award Date		023 Award Date	FY 2	-			FY 2024	Cost To Complete	8.572 Total Cost	Target Value of Contract
	Contract Method	Subtotal ONS) Performing	Prior	FY 2	Award Date	FY 2 Cost	Award	FY 2 Bas	Se Award	00	CO Award	FY 2024 Total	Cost To	Total	Target Value of

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2024 Army	/				Date	: March 20	23					
Appropriation/Budget Activity 2040 / 5			R-1 Program Element (Number/Name) PE 0605047A / Contract Writing SystemProject (Number/Name) FA7 / Contract Writing System										
	Prior Years	FY 2022	FY 202	FY 2 23 Bas		2024 FY 2024 CO Total	Cost To Complete	Total Cost	Target Value of Contract				
Project Cost Totals	118.187	20.195	13.742	16.355	-	16.355	0.000	168.479	N/A				

Remarks

xhibit R-4, RDT&E Schedule Profile: PB 2024 /	Army																		Date			-	23		
opropriation/Budget Activity 140 / 5													e <mark>r/Na</mark> r g Syst						imbe act V				em		
	_							-					, -,	-						-	<u> </u>	,			
Event Name		FY 202			FY 2				2024				2025			Y 20					2027				2028
Acquisition, Testing, and Deployment Phase	1	2 3	4	1	2	3 4	1	2	3	4	1	2	3 4	<u>i 1</u>	1	2 :	3 4	4	1	2	3	4	1	2	3
IOC Design, Development, and Test																									
IOC Pilot Release Limited Deployment ATP/ IOC Capability	-	2																							
Pivot to Portfolio Approach																									
Operational Assessment																									
Acquisition Planning																									
Decision Point: Change in Solution Strategy		3																							
Inter Agency Agreement (IAA): Risk Reduction																									
IAA: Initial Implementation		-	4																						
Requirements & Acquisition Planning and Cloud Infrastruc																									
Business Process Reengineering																									
Development Sprint Execution																									
Authority to Proceed (ATP): MVP					-																				

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army		Date: March 2023
	 • `	umber/Name) tract Writing System
201010	170170011	

Event Name	1	 	_																					1			2028	•
		 2 3	3	4	1	2	3	4	1	2	3	4	1	1	2 :	3 4	i 1	2	3	4 1	1	2	3	4	1	2	3	4
MVP Release							9																					
Installation and Expeditionary Contracting (Incremental																												
Construction Contracting (Incremental Capability Delivery)																												
Grants & Agreements (Incremental Capability Delivery)																												
Depots & Logistics (Incremental Capability Delivery)																												
Major System Procurement (Incremental Capability Delive	cy)																											
Universal Capability (Incremental Capability Delivery)																												
Secure Environment Contracting (Incremental Capability D																												
IAA: Solutions Integration & Capabilities Development																												
lution Training, Deployment and Fielding																												
ense Procurement																												
Development License Purchase				4																								
Core Contract Writing License Procurement (non-user bas	ed)					4																						

Exhibit R-4, RDT&E Schedule Profile: PB 2024 A	Army							Date: March 20	23
Appropriation/Budget Activity 2040 / 5					nt (Number/Name act Writing Syster			lumber/Name) tract Writing Syst	'em
Event Name	FY 2022	FY 20	23	FY 2024	FY 2025	F	Y 2026	FY 2027	FY 2028
	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
Core Contract Writing License									
Continuous Integration / Continuous Deployment (CI/CD) P									

	R-1 Program Element (Numbe PE 0605047A / Contract Writing		Date: Marc Project (Number/Nan FA7 / Contract Writing	ne)
Sche	edule Details			
	St	art	E	nd
Events	Quarter	Year	Quarter	Year
RFP Release ADM (Material Solution Analysis Phase)	3	2016	3	2016
ATP-1 (MS A) / Contract Award - Task Order 0001	3	2017	3	2017
Risk Reduction Activities	3	2017	4	2018
Acquisition, Testing, and Deployment Phase	3	2016	3	2023
IOC Design, Development, and Test	4	2018	2	2022
Baseline ATP / Contract Award - MVS/IOC Release Task Order	4	2018	4	2018
MVS Pilot Release Limited Deployment ATP	1	2021	1	2021
MVS/IOC User Acceptance Testing (UAT) Events Complete	4	2020	4	2020
IOC Pilot Release Limited Deployment ATP/ IOC Capability Evaluation	2	2022	2	2022
Pivot to Portfolio Approach	2	2022	2	2022
Operational Assessment	1	2022	3	2022
Acquisition Planning	2	2022	3	2022
Decision Point: Change in Solution Strategy	3	2022	3	2022
Inter Agency Agreement (IAA): Risk Reduction	3	2022	4	2022
IAA: Initial Implementation	4	2022	4	2022
Requirements & Acquisition Planning and Cloud Infrastructure Developmen	t 4	2022	3	2023
Business Process Reengineering	1	2023	3	2023
Development Sprint Execution	2	2023	1	2026
Authority to Proceed (ATP): MVP	3	2023	3	2023
MVP Release	3	2023	3	2023
Installation and Expeditionary Contracting (Incremental Capability Delivery)	2	2023	1	2024
Construction Contracting (Incremental Capability Delivery)	4	2023	2	2024
Grants & Agreements (Incremental Capability Delivery)	3	2024	2	2025

chibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date:	March 2023
propriation/Budget Activity 40 / 5		Element (Number I Contract Writing		Project (Number FA7 / Contract W	
		St	art		End
Events		Quarter	Year	Quarter	Year
Depots & Logistics (Incremental Capability Delivery)		2	2025	3	2025
Major System Procurement (Incremental Capability Delivery)		2	2024	4	2024
Universal Capability (Incremental Capability Delivery)		3 2024		4	2025
Secure Environment Contracting (Incremental Capability Delivery)		2	2025	2	2026
IAA: Solutions Integration & Capabilities Development		4	2023	4	2023
Solution Training, Deployment and Fielding		1	2023	2	2026
License Procurement		4	2022	4	2022
Development License Purchase		4	2022	4	2022
Core Contract Writing License Procurement (non-user based)		2	2023	2	2023
Core Contract Writing License		2	2023	2	2027
Continuous Integration / Continuous Deployment (CI/CD) Pipeline Execution	on	3	2023	2	2032

Exhibit R-2, RDT&E Budget Item		Date: March 2023										
Appropriation/Budget Activity 2040: <i>Research, Development, Te</i> <i>Development & Demonstration (St</i>	tem	R-1 Progra PE 060504		•	ernization (I							
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	5 FY 2026 FY 202		FY 2028	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	27.571	0.000	27.571	0.000	0.000	0.000	0.000	0.000	27.571
XT4: Advanced Threat Detection System (ATDS)	27.571	-	27.571	-	-	-	-	0.000	27.571			

Note

Advanced Threat Detection System (ATDS) is a new start within the Missile Warning System Modernization program in FY 2024.

A. Mission Description and Budget Item Justification

The Missile Warning System Modernization (MWSM) budget line includes funding to support the development and integration of improved Aircraft Survivability Equipment (ASE) products onto current US Army Aviation platforms as well as Future Vertical Lift (FVL) Future Attack Reconnaissance Aircraft (FARA) and Future Long Range Assault Aircraft (FLRAA) and future platforms.

On 14 March 2022 a Material Development Decision (MDD) request for the Improved Threat Detection System (ITDS) was issued by the Deputy Chief of Staff of the Army (DCS), G-8. ITDS is a new start in FY2024, and will provide the capability to detect, classify, cue, and declare on existing and emerging Electro-Optical/Infra-red (EO/IR) guided Man Portable Air Defense Systems (MANPADS), Rocket Propelled Grenades (RPG)/unguided rockets, Anti-Tank Guided Missiles (ATGM), Ballistic, and Lasers. ITDS will provide a cue, based on the threat classification, to the appropriate countermeasure system (Directable Infrared Countermeasure and/or expendable countermeasure system).

Justification:

FY2024 BASE RDTE dollars in the amount of \$27.571 million will fund pathway initiation and oversee a robust development effort including program management, technical oversight for an ITDS milestone decision, and execution of contract(s) to initiate Product Development.

Funding was placed on the ATDS funding line because none currently exists for ITDS. A new funding line is expected to be created for ITDS.

References:

-Rescission of Advanced Threat Detection System Request for Materiel Development Decision, DCS, G-8, 17 December 2018.
-MDD Request for the ITDS Program of Record, Aviation Capability Development and Integration Directorate (Aviation CDID), 6 July 2021.
-MDD Request for the ITDS Program of Record, DCS, G-8, 14 March 2022.
-Assignment of an Army Office of Primary Responsibility (OPR) for the ITDS Capability, Assistant Secretary of the Army (Acquisition, Logistics and Technology) (ASA(ALT)), 18 April 2022.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Arr	ny			Date:	March 2023
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5 Development & Demonstration (SDD)	5: System	-	ement (Number/Name) Missile Warning System))
B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	27.571	-	27.571
Total Adjustments	0.000	0.000	27.571	-	27.571
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	27.571	-	27.571

Change Summary Explanation

Addition of FY2024 funds for initiation of the ITDS program.

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2024 A	Army							Date: Mare	ch 2023	
Appropriation/Budget Activity 2040 / 5			R-1 Program Element (Number/Name) Project (Number/Name) PE 0605049A I Missile Warning System M XT4 I Advanced Threat Detect odernization (MWSM) (ATDS)								System	
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
XT4: Advanced Threat Detection System (ATDS)	-	-	-	27.571	-	27.571	-	-	-	-	0.000	27.571
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Advanced Threat Detection System (ATDS) is a new start within the Missile Warning System Modernization (MWSM) program in FY 2024.

A. Mission Description and Budget Item Justification

The Missile Warning System Modernization (MWSM) budget line includes funding to support the development and integration of improved Aircraft Survivability Equipment (ASE) products onto current US Army Aviation platforms as well as Future Vertical Lift (FVL) Future Attack Reconnaissance Aircraft (FARA) and Future Long Range Assault Aircraft (FLRAA) and future platforms.

On 14 March 2022 a Material Development Decision (MDD) request for the Improved Threat Detection System (ITDS) was issued by the Deputy Chief of Staff of the Army (DCS), G-8. ITDS is a new start in FY2024, and will provide the capability to detect, classify, cue, and declare on existing and emerging Electro-Optical/Infra-red (EO/IR) guided Man Portable Air Defense Systems (MANPADS), Rocket Propelled Grenades (RPG)/unguided rockets, Anti-Tank Guided Missiles (ATGM), Ballistic, and Lasers. ITDS will provide a cue, based on the threat classification, to the appropriate countermeasure system (Directable Infrared Countermeasure and/or expendable countermeasure system).

Justification:

FY2024 BASE RDTE dollars in the amount of \$27.571 million will fund pathway initiation and oversee a robust development effort including program management, technical oversight for an ITDS milestone decision, and execution of contract(s) to initiate Product Development.

Funding was placed on the ATDS funding line because none currently exists for ITDS. A new funding line is expected to be created for ITDS.

References:

-Rescission of Advanced Threat Detection System Request for Materiel Development Decision, DCS, G-8, 17 December 2018.

-MDD Request for the ITDS Program of Record, Aviation Capability Development and Integration Directorate (Aviation CDID), 6 July 2021.

-MDD Request for the ITDS Program of Record, DCS, G-8, 14 March 2022.

-Assignment of an Army Office of Primary Responsibility (OPR) for the ITDS Capability, Assistant Secretary of the Army (Acquisition, Logistics and Technology) (ASA(ALT)), 18 April 2022.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: ITDS Product Development and Management Services	-	-	27.571

PE 0605049A: *Missile Warning System Modernization (MW...* Army

Exhibit R-2A, RDT&E Project Justification: PB 2024 Army			Date: N	larch 2023	
Appropriation/Budget Activity 2040 / 5	PE 0605049A / Missile Warning System M	Project (XT4 / Adv (ATDS)		Name) hreat Detectio	n System
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2022	FY 2023	FY 2024
FY 2024 Plans: FY2024 BASE RDTE dollars in the amount of \$27.571 million will fund programilestone decision and execution of contract/s to initiate Product Developme		DS			
FY 2023 to FY 2024 Increase/Decrease Statement: Addition of FY2024 funds for initiation of the ITDS program. Advanced Threa Missile Warning System Modernization program in FY 2024.	t Detection System (ATDS) is a new start within t	ne			
	Accomplishments/Planned Programs Subt	otals	-	-	27.571
C. Other Program Funding Summary (\$ in Millions) N/A					

Remarks

D. Acquisition Strategy

Subsequent to Aviation CDID issuance of the MDD Request for the ITDS Program of Record, the Program Manager, Aircraft Survivability Equipment (PM ASE) submitted initial requirements for the FY2024-2028 Program Objective Memorandum (POM) period. PM ASE is currently following the ASA(ALT) directed Acquisition Shaping Panel (ASP) process in preparation for the ITDS MDD. The results of the ASP and MDD will direct the formal acquisition and contracting strategies for ITDS. The Aviation Enablers-Requirements Determination Division at the US Army Aviation Center of Excellence is developing a draft of the ITDS Capabilities Development Document (CDD) to support future milestone decisions.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2024 Arm	у								Date:	March 20	23	
Appropriation/Budg 2040 / 5	et Activity	1				PE 060	-	ement (N Missile Wa VSM)			-		r/Name) Threat De	tection S	System
Management Servic	es (\$ in M	illions)		FY :	2022	FY :	2023	FY 2 Ba	2024 Ise		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ITDS SEPM	TBD	Various : Various	-	-		-		14.647		-		14.647	0.000	14.647	Continuin
		Subtotal	-	-		-		14.647		-		14.647	0.000	14.647	N/A
Product Developme	nt (\$ in M	illions)		FY	2022	FY	2023	FY 2 Ba	2024 Ise		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ITDS Development Engineering	TBD	PM ASE : HSV, AL	-	-		-		12.924		-		12.924	0.000	12.924	Continuin
		Subtotal	-	-		-		12.924		-		12.924	0.000	12.924	N/A
			Prior Years	FY	2022	FY	2023	FY 2 Ba	2024 Ise		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals		i	1	i		27.571				27.571	0.000	27.571	N/A

Remarks

xhibit R-4, RDT&E Schedule Profile: PE	3 2024 Army						Date: March 20	23	
ppropriation/Budget Activity 040 / 5	F	R-1 Progran PE 0605049 <i>i</i> Indernization	A I Missil	Number/Name) vanced Threat Detection System					
Event Name	FY 2022	FY 202		2024	FY 2025	FY 2026	FY 2027	FY 2028	
ITDS MDD	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	
ITDS Development Engineering									

khibit R-4A, RDT&E Schedule Details: PB 2024 Army				Date: Marc	h 2023	
opropriation/Budget Activity 40 / 5	R-1 Program Elem PE 0605049A <i>I Mis</i> <i>odernization (MWS</i>	sile Warning	Project (Number/Name) XT4 I Advanced Threat Detection Syste (ATDS)			
	Schedule Details					
		Sta	art	E	nd	
Events		Quarter	Year	Quarter	Year	
PEO Acquisition Decision Memorandum (ADM)		1	2019	1	2019	
Enhanced Market Research		2	2019	2	2020	
Enhanced Market Research Report		2	2020	2	2020	
ITDS MDD		1	2024	1	2024	