Department of Defense
Fiscal Year (FY) 2025 Budget Estimates

March 2024

Army

Justification Book Volume 3c of 3

Research, Development, Test & Evaluation, Army

RDT&E − Volume II, Budget Activity 5C

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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, $14,073,308,000.00 to remain available for obligation until September 30, 2026.

The FY 2025 Overseas Operational Costs accounted for in the Base budget total $3,157 thousand.

FY 2023 includes $7,626 thousand in Overseas Operations Costs (OOC) Actuals. FY 2024 includes $3,166 thousand in OOC Requested. FY 2025 includes $3,157 thousand for the OOC Budget Estimate. OOC were financed previously with former Overseas Contingency Operations (OCO) funding.

COST STATEMENT

The following Justification Books were prepared at a cost of $277,115.51 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.

FY 2025 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 2025.

2. Relationship of the FY 2025 Budget Submitted to Congress to the FY 2024 Budget Submitted to Congress. This paragraph provides a list of program elements/projects that are major new starts and terminated programs. Explanations for these changes can be found in the narrative sections of the Program Element R-2A Exhibits.

New Start Programs:

Budget Activity	***OSDPE / Project***	***Project Title***
02	0602148A / CC3	FVL Radar Technologies
02	0602183A / DK1	Air Vehicle Integrated & Alternative Tech (AVIATe)
02	0602386A / SM1	Scale-Up Microbial Products for Biomanufacturing
02	0602150A / SU1	Counter Small Unmanned Aircraft Sys (C-sUAS) Tech
03	0603464A / CE9	Armaments Advanced Technology
03	0603119A / DI9	Comprehensive Adapt Operational Energy Adv Tech
03	0603043A / DK2	Air Vehicle Improvement & Adv Tech (AVIATe)
03	0603044A / EA7	Enhanced Indirect Fire Adv Tech
03	0603466A / IB1	Integrated Beam Control Systems Demo for C-CM
03	0603116A / LR1	Long Range Sensing Adv Tech
03	0603465A / CK2	High Speed Maneuverable Missile (HSMM) Adv Tech
03	0603042A / DI6	Anti-Tamper Advanced Tech Development
04	0604386A / CQ9	Biotechnology for Materials - Dem/Val
04	0604019A / DJ5	Multi-Domain Artillery Cannon System (MDACS)
04	0305251A / FA8	Cyberspace Operations Forces and Force Support
04	0603639A / FG1	Cannon-Delivered Area Effects Munitions (C-DAEM)
04	0603639A / XT5	30mm Anti-Personnel and Counter UAS

05	0604805A / DH4	CMOSS Mounted Form Factor (CMFF) Radio Cards
05	0604710A / DI5	FALCONS
05	0605244A / DJ3	Joint Reduced Range Rocket
05	0605242A / DJ4	Theater SIGINT System (TSIGS)
05	0605247A / DJ8	Spectrum Situational Awareness System (S2AS)
05	0605054A / DJ9	Guam Defense System - Management
05	0604854A / DH7	Next Generation Howitzer
05	0604818A / DK3	Sensor Computing Environment (SCE)
05	0604713A / EL2	Army Field Feeding Equipment
05	0605038A / EQ7	NBC Reconnaissance Vehicle (NBCRV) Sensor Suite
05	0605051A / ITD	Improved Threat Detection System (ITDS)
05	0604827A / LS2	Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev
05	0604802A / MS1	Battalion Mortar System Modernization
05	0605241A / DG5	Future Long Range Assault Aircraft
05	0604805A / DH5	CMOSS Mounted Form Factor (CMFF)Chassis
06	0605805A / 857	DoD Explosives Safety Standards
07	0607101A / DJ7	Radiological Detection System Development

Program Terminations (including transfers to Procurement and Sustainment):

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Budget Activity	***OSDPE / Project***	***Project Title***
02	0602002A / DC5	Team Ignite
02	0602145A / BI4	Materials Application and Integration Tech
03	0603464A / AG5	Extended Range Artillery Munition Suite Adv Tech
03	0603118A / AY7	Small Arms Fire Control Advanced Technology
03	0603118A / BB8	Soldier Centric Advanced Technology
03	0603462A / BI5	Materials Application and Integration Adv Tech
03	0603462A / BK4	Next Gen Intelligent Fire Control(NG-IFC) Adv Tech

03	0603041A / CM8	Convergence Battlefield Integration
04	0603801A / CK7	FARA Ecosystem
04	0603801A / F12	Future Attack Reconnaissance Aircraft
04	0604120A / EJ2	MOUNTED
04	0604120A / BV4	Area Protection and Alt Nav Technology Development
05	0604802A / EP2	Shoulder-Launched Munitions
05	0604802A / EP4	One-Way Luminescence for Small Caliber Ammo
05	0604802A / FA6	30mm Lethality
05	0604818A / EJ6	TACTICAL ENHANCEMENT
05	0605041A / CY5	CYBER Situational Understanding
05	0605053A / BS9	Robotic Payloads
05	0604808A / CS3	Next Generation Advanced Bomb Suit (NGABS)
06	0605326A / 33B	Soldier-Centered Analyses For Future Force
07	0203735A / 280	RECOV VEH IMPROV PROG
07	0303028A / FG2	Counterintelligence & Human Intel Modernization
07	0607142A / EW9	Aviation Rocket System Product Improvement and Dev

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 the Army
FY 2025 President's Budget
Exhibit R-1 FY 2025 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Mar 2024

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

Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
1	0601102A	Defense Research Sciences	01	U	386,594	296,670	310,191
2	0601103A	University Research Initiatives	01	U	97,598	75,672	78,166
3	0601104A	University and Industry Research Centers	01	U	119,270	108,946	109,726
4	0601121A	Cyber Collaborative Research Alliance	01	U	5,355	5,459	5,525
5	0601601A	Artificial Intelligence and Machine Learning Basic Research	01	U	7,985	10,708	10,309
	Basic Research				**616,802**	**497,455**	**513,917**
6	0602002A	Army Agile Innovation and Development-Applied Research	02	U	127	5,613	8,032
7	0602134A	Counter Improvised-Threat Advanced Studies	02	U	5,966	6,242	6,163
8	0602141A	Lethality Technology	02	U	180,191	85,578	96,094
9	0602142A	Army Applied Research	02	U	27,833	34,572	
10	0602143A	Soldier Lethality Technology	02	U	266,501	104,470	102,236
11	0602144A	Ground Technology	02	U	256,916	60,005	66,707
12	0602145A	Next Generation Combat Vehicle Technology	02	U	273,166	166,500	149,108
13	0602146A	Network C3I Technology	02	U	221,293	81,618	84,576
14	0602147A	Long Range Precision Fires Technology	02	U	113,099	34,683	32,089
15	0602148A	Future Verticle Lift Technology	02	U	103,022	73,844	52,685
16	0602150A	Air and Missile Defense Technology	02	U	94,972	33,301	39,188
17	0602180A	Artificial Intelligence and Machine Learning Technologies	02	U	15,481	24,142	20,319
18	0602181A	All Domain Convergence Applied Research	02	U	26,362	14,297	12,269
19	0602182A	C3I Applied Research	02	U	26,913	30,659	25,839
20	0602183A	Air Platform Applied Research	02	U	40,372	48,163	53,206
21	0602184A	Soldier Applied Research	02	U	15,427	18,986	21,069

Department of the Army
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22	0602213A	C3I Applied Cyber	02	U	13,605	22,714	28,656
23	0602386A	Biotechnology for Materials - Applied Research	02	U	21,015	16,736	11,780
25	0602785A	Manpower/Personnel/Training Technology	02	U	19,343	19,969	19,795
26	0602787A	Medical Technology	02	U	79,851	66,266	68,481
999	999999999	Classified Programs	02	U			35,766
	Applied Research				**1,801,455**	**948,358**	**934,058**
27	0603002A	Medical Advanced Technology	03	U	31,398	4,147	3,112
28	0603007A	Manpower, Personnel and Training Advanced Technology	03	U	15,146	16,316	16,716
29	0603025A	Army Agile Innovation and Demonstration	03	U	17,757	23,156	14,608
30	0603040A	Artificial Intelligence and Machine Learning Advanced Technologies	03	U	6,162	13,187	18,263
31	0603041A	All Domain Convergence Advanced Technology	03	U	40,955	33,332	23,722
32	0603042A	C3I Advanced Technology	03	U	12,252	19,225	22,814
33	0603043A	Air Platform Advanced Technology	03	U	13,062	14,165	17,076
34	0603044A	Soldier Advanced Technology	03	U	462	1,214	10,133
35	0603116A	Lethality Advanced Technology	03	U	11,460	20,582	33,969
36	0603117A	Army Advanced Technology Development	03	U	138,774	136,280	
37	0603118A	Soldier Lethality Advanced Technology	03	U	150,020	102,778	94,899
38	0603119A	Ground Advanced Technology	03	U	415,104	40,597	45,880
39	0603134A	Counter Improvised-Threat Simulation	03	U	20,782	21,672	21,398
40	0603386A	Biotechnology for Materials - Advanced Research	03	U	54,778	59,871	36,360
41	0603457A	C3I Cyber Advanced Development	03	U	41,354	28,847	19,616
42	0603461A	High Performance Computing Modernization Program	03	U	293,043	255,772	239,597
43	0603462A	Next Generation Combat Vehicle Advanced Technology	03	U	467,533	217,394	175,198

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44	0603463A	Network C3I Advanced Technology	03	U	174,768	105,549	94,424
45	0603464A	Long Range Precision Fires Advanced Technology	03	U	225,921	153,024	164,943
46	0603465A	Future Vertical Lift Advanced Technology	03	U	265,429	158,795	140,578
47	0603466A	Air and Missile Defense Advanced Technology	03	U	108,758	21,015	28,333
49	0603920A	Humanitarian Demining	03	U	20,674	9,068	9,272
999	999999999	Classified Programs	03	U			155,526
	Advanced Technology Development				**2,525,592**	**1,455,986**	**1,386,437**
51	0603305A	Army Missle Defense Systems Integration	04	U	117,723	12,904	13,031
52	0603308A	Army Space Systems Integration	04	U	30,453	19,120	19,659
53	0603327A	Air and Missile Defense Systems Engineering	04	U	15,000		
54	0603619A	Landmine Warfare and Barrier - Adv Dev	04	U	59,911	47,537	58,617
55	0603639A	Tank and Medium Caliber Ammunition	04	U	49,609	91,323	116,027
56	0603645A	Armored System Modernization - Adv Dev	04	U	133,300	43,026	23,235
57	0603747A	Soldier Support and Survivability	04	U	4,030	3,550	4,059
58	0603766A	Tactical Electronic Surveillance System - Adv Dev	04	U	72,364	65,567	90,265
59	0603774A	Night Vision Systems Advanced Development	04	U	96,819	73,675	64,113
60	0603779A	Environmental Quality Technology - Dem/Val	04	U	75,614	31,720	34,091
61	0603790A	NATO Research and Development	04	U	3,666	4,143	4,184
62	0603801A	Aviation - Adv Dev	04	U	1,113,295	1,502,160	6,591
63	0603804A	Logistics and Engineer Equipment - Adv Dev	04	U	24,287	7,604	12,445
64	0603807A	Medical Systems - Adv Dev	04	U	5,598	1,602	582
65	0603827A	Soldier Systems - Advanced Development	04	U	20,807	27,681	24,284
66	0604017A	Robotics Development	04	U	27,444	3,024	3,039
67	0604019A	Expanded Mission Area Missile (EMAM)	04	U	250,351	97,018	102,589

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68	0604020A	Cross Functional Team (CFT) Advanced Development & Prototyping	04	U	74,189	117,557	63,831
69	0604035A	Low Earth Orbit (LEO) Satellite Capability	04	U	34,213	38,851	21,935
70	0604036A	Multi-Domain Sensing System (MDSS) Adv Dev	04	U	47,915	191,394	239,135
71	0604037A	Tactical Intel Targeting Access Node (TITAN) Adv Dev	04	U	863	10,626	4,317
72	0604100A	Analysis Of Alternatives	04	U	10,270	11,095	11,234
73	0604101A	Small Unmanned Aerial Vehicle (SUAV) (6.4)	04	U	1,373	5,144	1,800
74	0604103A	Electronic Warfare Planning and Management Tool (EWPMT)	04	U		2,260	2,004
75	0604113A	Future Tactical Unmanned Aircraft System (FTUAS)	04	U	134,719	53,143	127,870
76	0604114A	Lower Tier Air Missile Defense (LTAMD) Sensor	04	U	366,637	816,663	149,463
77	0604115A	Technology Maturation Initiatives	04	U	209,220	281,314	252,000
78	0604117A	Maneuver - Short Range Air Defense (M-SHORAD)	04	U	269,186	281,239	315,772
79	0604119A	Army Advanced Component Development & Prototyping	04	U	198,111	204,914	
80	0604120A	Assured Positioning, Navigation and Timing (PNT)	04	U	54,728	40,930	24,168
81	0604121A	Synthetic Training Environment Refinement & Prototyping	04	U	236,396	109,714	136,029
82	0604134A	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04	U	14,298	16,426	17,341
83	0604135A	Strategic Mid-Range Fires	04	U	379,535	31,559	
84	0604182A	Hypersonics	04	U	309,068	43,435	
85	0604386A	Biotechnology for Materials - Dem/Val	04	U			20,862
86	0604403A	Future Interceptor	04	U	7,880	8,040	8,058
88	0604531A	Counter - Small Unmanned Aircraft Systems Advanced Development	04	U	36,629	64,242	59,983
90	0604541A	Unified Network Transport	04	U	35,616	40,915	31,837

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91	0305251A	Cyberspace Operations Forces and Force Support	04	U	55,599		2,270
999	999999999	Classified Programs	04	U		19,200	277,181
	Advanced Component Development & Prototypes				**4,576,716**	**4,420,315**	**2,343,901**
92	0604201A	Aircraft Avionics	05	U	3,213	13,673	7,171
93	0604270A	Electronic Warfare Development	05	U	3,987	12,789	35,942
94	0604601A	Infantry Support Weapons	05	U	80,115	64,076	52,586
95	0604604A	Medium Tactical Vehicles	05	U	21,354	28,226	15,088
96	0604611A	JAVELIN	05	U	15,899	7,827	10,405
97	0604622A	Family of Heavy Tactical Vehicles	05	U	51,261	44,197	50,011
98	0604633A	Air Traffic Control	05	U	2,527	1,134	982
99	0604641A	Tactical Unmanned Ground Vehicle (TUGV)	05	U	107,975	142,125	92,540
100	0604642A	Light Tactical Wheeled Vehicles	05	U	13,667	53,564	100,257
101	0604645A	Armored Systems Modernization (ASM) - Eng Dev	05	U	60,827	102,201	48,097
102	0604710A	Night Vision Systems - Eng Dev	05	U	89,273	48,720	89,259
103	0604713A	Combat Feeding, Clothing, and Equipment	05	U	1,509	2,223	3,286
104	0604715A	Non-System Training Devices - Eng Dev	05	U	17,910	21,441	28,427
105	0604741A	Air Defense Command, Control and Intelligence - Eng Dev	05	U	54,244	74,738	69,653
106	0604742A	Constructive Simulation Systems Development	05	U	28,404	30,985	30,097
107	0604746A	Automatic Test Equipment Development	05	U	4,989	13,626	12,927
108	0604760A	Distributive Interactive Simulations (DIS) - Eng Dev	05	U	7,890	8,802	8,914
109	0604798A	Brigade Analysis, Integration and Evaluation	05	U	22,207	20,828	26,352
110	0604802A	Weapons and Munitions - Eng Dev	05	U	284,859	243,851	242,949
111	0604804A	Logistics and Engineer Equipment - Eng Dev	05	U	74,150	37,420	41,829

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Mar 2024

(Dollars in Thousands)

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Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments	FY 2025 Request
112	0604805A	Command, Control, Communications Systems - Eng Dev	05	U	43,533	34,214	92,300
113	0604807A	Medical Materiel/Medical Biological Defense Equipment - Eng Dev	05	U	25,035	6,496	7,143
114	0604808A	Landmine Warfare/Barrier - Eng Dev	05	U	36,707	13,581	19,134
115	0604818A	Army Tactical Command & Control Hardware & Software	05	U	128,240	168,574	165,229
116	0604820A	Radar Development	05	U	77,158	94,944	76,090
117	0604822A	General Fund Enterprise Business System (GFEBS)	05	U	10,022	2,965	1,995
118	0604827A	Soldier Systems - Warrior Dem/Val	05	U	19,237	11,333	29,132
119	0604852A	Suite of Survivability Enhancement Systems - EMD	05	U	75,520	79,250	77,864
120	0604854A	Artillery Systems - EMD	05	U	42,261	42,490	50,495
121	0605013A	Information Technology Development	05	U	85,713	104,024	120,076
122	0605018A	Integrated Personnel and Pay System-Army (IPPS-A)	05	U	65,055	102,084	126,354
123	0605030A	Joint Tactical Network Center (JTNC)	05	U	17,274	18,662	20,191
124	0605031A	Joint Tactical Network (JTN)	05	U	29,050	30,328	31,214
125	0605035A	Common Infrared Countermeasures (CIRCM)	05	U	9,602	11,509	11,691
126	0605036A	Combating Weapons of Mass Destruction (CWMD)	05	U		1,050	7,846
127	0605038A	Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	05	U			7,886
128	0605041A	Defensive CYBER Tool Development	05	U	33,029	27,714	4,176
129	0605042A	Tactical Network Radio Systems (Low-Tier)	05	U	4,265	4,318	4,288
130	0605047A	Contract Writing System	05	U	13,220	16,355	9,276
131	0605049A	Missile Warning System Modernization (MWSM)	05	U		27,571	
132	0605051A	Aircraft Survivability Development	05	U	18,425	24,900	38,225
133	0605052A	Indirect Fire Protection Capability Inc 2 - Block 1	05	U	126,308	196,248	167,912
134	0605053A	Ground Robotics	05	U	25,131	35,319	28,378

Department of the Army
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Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
135	0605054A	Emerging Technology Initiatives	05	U	212,750	201,274	164,734
136	0605143A	Biometrics Enabling Capability (BEC)	05	U	9,186		
137	0605144A	Next Generation Load Device - Medium	05	U	24,094	36,970	2,931
138	0605148A	Tactical Intel Targeting Access Node (TITAN) EMD	05	U	103,987	132,136	157,036
139	0605203A	Army System Development & Demonstration	05	U	143,616	81,657	
140	0605205A	Small Unmanned Aerial Vehicle (SUAV) (6.5)	05	U	6,292	31,284	37,876
141	0605206A	CI and HUMINT Equipment Program-Army (CIHEP-A)	05	U		2,170	1,296
142	0605216A	Joint Targeting Integrated Command and Coordination Suite (JTIC2S)	05	U		9,290	28,553
143	0605224A	Multi-Domain Intelligence	05	U	6,008	41,003	18,913
144	0605231A	Precision Strike Missile (PrSM)	05	U	250,034	272,786	184,046
145	0605232A	Hypersonics EMD	05	U	533,520	900,920	538,017
146	0605233A	Accessions Information Environment (AIE)	05	U	9,720	27,361	32,265
147	0605235A	Strategic Mid-Range Capability	05	U	4,833	348,855	182,823
148	0605236A	Integrated Tactical Communications	05	U	11,993	22,901	23,363
149	0605241A	Future Long Range Assault Aircraft Development	05	U			1,253,637
150	0605242A	Theater SIGINT System (TSIGS)	05	U			6,660
151	0605244A	Joint Reduced Range Rocket (JR3)	05	U			13,565
152	0605247A	Spectrum Situational Awareness System (S2AS)	05	U			9,330
153	0605450A	Joint Air-to-Ground Missile (JAGM)	05	U	2,280	3,014	3,030
154	0605457A	Army Integrated Air and Missile Defense (AIAMD)	05	U	245,791	284,095	602,045
155	0605531A	Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration	05	U	11,548	36,016	59,563
157	0605625A	Manned Ground Vehicle	05	U	519,131	996,653	504,841
158	0605766A	National Capabilities Integration (MIP)	05	U	16,790	15,129	16,565

Department of the Army
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159	0605812A	Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)	05	U	9,033	27,243	27,013
160	0605830A	Aviation Ground Support Equipment	05	U	2,851	1,167	979
161	0303032A	TROJAN - RH12	05	U	3,761	3,879	3,930
162	0303767A	AMBIT - Pre-Auctioned SRF	05	U	21,730		
163	0304270A	Electronic Warfare Development	05	U	97,616	137,186	131,096
999	999999999	Classified Programs	05	U			83,136
	System Development & Demonstration				**4,077,609**	**5,639,364**	**6,150,910**
164	0604256A	Threat Simulator Development	06	U	138,264	38,492	71,298
165	0604258A	Target Systems Development	06	U	53,434	11,873	15,788
166	0604759A	Major T&E Investment	06	U	144,173	76,167	78,613
167	0605103A	Rand Arroyo Center	06	U	30,800	37,078	38,122
168	0605301A	Army Kwajalein Atoll	06	U	297,859	314,872	321,755
169	0605326A	Concepts Experimentation Program	06	U	83,668	95,551	86,645
170	0605502A	Small Business Innovative Research	06	U	382,638		
171	0605601A	Army Test Ranges and Facilities	06	U	414,662	439,118	461,085
172	0605602A	Army Technical Test Instrumentation and Targets	06	U	72,760	42,220	75,591
173	0605604A	Survivability/Lethality Analysis	06	U	35,750	37,518	37,604
174	0605606A	Aircraft Certification	06	U	4,777	2,718	2,201
175	0605702A	Meteorological Support to RDT&E Activities	06	U	6,820		
176	0605706A	Materiel Systems Analysis	06	U	22,004	26,902	27,420
177	0605709A	Exploitation of Foreign Items	06	U	6,186	7,805	6,245
178	0605712A	Support of Operational Testing	06	U	69,879	75,133	76,088
179	0605716A	Army Evaluation Center	06	U	67,058	71,118	73,220

Department of the Army
FY 2025 President's Budget
Exhibit R-1 FY 2025 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Mar 2024

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

Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
180	0605718A	Army Modeling & Sim X-Cmd Collaboration & Integ	06	U	5,874	11,204	11,257
181	0605801A	Programwide Activities	06	U	88,780	93,895	91,895
182	0605803A	Technical Information Activities	06	U	36,821	31,327	32,385
183	0605805A	Munitions Standardization, Effectiveness and Safety	06	U	59,088	50,409	50,766
184	0605857A	Environmental Quality Technology Mgmt Support	06	U	1,842	1,629	1,659
185	0605898A	Army Direct Report Headquarters - R&D - MHA	06	U	53,003	55,843	59,727
186	0606002A	Ronald Reagan Ballistic Missile Defense Test Site	06	U	85,873	91,340	73,400
187	0606003A	CounterIntel and Human Intel Modernization	06	U	1,424	6,348	4,574
188	0606942A	Assessments and Evaluations Cyber Vulnerabilities	06	U	5,816	6,025	10,105
189	0909999A	Financing for Cancelled Account Adjustments	06	U	135		
	Management Support				**2,169,388**	**1,624,585**	**1,707,443**
190	0603778A	MLRS Product Improvement Program	07	U	17,790	14,465	14,188
191	0605024A	Anti-Tamper Technology Support	07	U	9,028	7,472	7,489
192	0607101A	Combating Weapons of Mass Destruction (CWMD) Product Improvement	07	U			271
193	0607131A	Weapons and Munitions Product Improvement Programs	07	U	54,216	8,425	9,363
194	0607136A	Blackhawk Product Improvement Program	07	U		1,507	25,000
195	0607137A	Chinook Product Improvement Program	07	U	65,596	9,265	4,816
196	0607139A	Improved Turbine Engine Program	07	U	219,713	201,247	67,029
197	0607142A	Aviation Rocket System Product Improvement and Development	07	U	10,899	3,014	
198	0607143A	Unmanned Aircraft System Universal Products	07	U	10,493	25,393	24,539
199	0607145A	Apache Future Development	07	U	26,607	10,547	8,243
200	0607148A	AN/TPQ-53 Counterfire Target Acquisition Radar System	07	U	59,312	54,167	53,652
201	0607150A	Intel Cyber Development	07	U	13,343	4,345	9,753

Department of the Army
FY 2025 President's Budget
Exhibit R-1 FY 2025 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Mar 2024

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

Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
202	0607312A	Army Operational Systems Development	07	U	26,131	19,000	
203	0607313A	Electronic Warfare Development	07	U	11,417	6,389	5,559
204	0607315A	Enduring Turbine Engines and Power Systems	07	U		2,411	2,620
206	0607665A	Family of Biometrics	07	U	1,073	797	590
207	0607865A	Patriot Product Improvement	07	U	146,753	177,197	168,458
208	0203728A	Joint Automated Deep Operation Coordination System (JADOCS)	07	U	18,606	42,177	27,582
209	0203735A	Combat Vehicle Improvement Programs	07	U	187,377	146,635	272,926
210	0203743A	155mm Self-Propelled Howitzer Improvements	07	U	112,257	122,902	55,205
211	0203752A	Aircraft Engine Component Improvement Program	07	U	148	146	142
212	0203758A	Digitization	07	U		1,515	1,562
213	0203801A	Missile/Air Defense Product Improvement Program	07	U	2,996	4,520	1,511
214	0203802A	Other Missile Product Improvement Programs	07	U	8,698	10,044	23,708
215	0205412A	Environmental Quality Technology - Operational System Dev	07	U	764	281	269
216	0205778A	Guided Multiple-Launch Rocket System (GMLRS)	07	U	19,443	75,952	20,590
217	0208053A	Joint Tactical Ground System	07	U	8,813	203	
220	0303028A	Security and Intelligence Activities	07	U		301	
221	0303140A	Information Systems Security Program	07	U	15,554	15,323	15,733
222	0303141A	Global Combat Support System	07	U	21,775	13,082	2,566
223	0303142A	SATCOM Ground Environment (SPACE)	07	U	14,551	26,838	26,643
226	0305179A	Integrated Broadcast Service (IBS)	07	U	9,426	9,456	5,701
227	0305204A	Tactical Unmanned Aerial Vehicles	07	U	4,500		
228	0305206A	Airborne Reconnaissance Systems	07	U	6,402		
229	0305219A	MQ-1 Gray Eagle UAV	07	U		6,629	6,681

Department of the Army
FY 2025 President's Budget
Exhibit R-1 FY 2025 President's Budget
Total Obligational Authority

Mar 2024

(Dollars in Thousands)

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

Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
230	0708045A	End Item Industrial Preparedness Activities	07	U	128,617	75,317	67,187
999	999999999	Classified Programs	07	U	6,664	8,786	32,518
	Operational Systems Development				**1,238,962**	**1,105,748**	**962,094**
231	0608041A	Defensive CYBER - Software Prototype Development	08	U	92,460	83,570	74,548
	Software And Digital Technology Pilot Programs				**92,460**	**83,570**	**74,548**
232	0901560A	Continuing Resolution Programs	20	U		1,366,740	
	Undistributed					**1,366,740**	
Total Research, Development, Test and Evaluation, Army					**17,098,984**	**17,142,121**	**14,073,308**

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

*FY 2023 includes $7,626 thousand in Overseas Operations Costs (OOC) Actuals. FY 2024 includes $3,166 thousand in OOC Requested. FY 2025 includes $3,157 thousand for the OOC Budget Estimate. OOC were financed previously with former Overseas Contingengy Operations (OCO) funding.

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
117	05	0604822A	General Fund Enterprise Business System (GFEBS)	Volume 3c - 1
118	05	0604827A	Soldier Systems - Warrior Dem/Val	Volume 3c - 15
119	05	0604852A	Suite of Survivability Enhancement Systems - EMD	Volume 3c - 46
120	05	0604854A	Artillery Systems - EMD	Volume 3c - 59
121	05	0605013A	Information Technology Development	Volume 3c - 76
122	05	0605018A	Integrated Personnel and Pay System-Army (IPPS-A)	Volume 3c - 161
123	05	0605030A	Joint Tactical Network Center (JTNC)	Volume 3c - 174
124	05	0605031A	Joint Tactical Network (JTN)	Volume 3c - 184
125	05	0605035A	Common Infrared Countermeasures (CIRCM)	Volume 3c - 206
126	05	0605036A	Combating Weapons of Mass Destruction (CWMD)	Volume 3c - 214
127	05	0605038A	Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	Volume 3c - 221
128	05	0605041A	Defensive CYBER Tool Development	Volume 3c - 227
129	05	0605042A	Tactical Network Radio Systems (Low-Tier)	Volume 3c - 253
130	05	0605047A	Contract Writing System	Volume 3c - 269
131	05	0605049A	Missile Warning System Modernization (MWSM)	Volume 3c - 282
132	05	0605051A	Aircraft Survivability Development	Volume 3c - 289

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
133	05	0605052A	Indirect Fire Protection Capability Inc 2 - Block 1	Volume 3c - 311
134	05	0605053A	Ground Robotics	Volume 3c - 330
135	05	0605054A	Emerging Technology Initiatives	Volume 3c - 360

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

Program Element Title	Program Element Number	Line #	BA	Page
Aircraft Survivability Development	0605051A	132	05	Volume 3c - 289
Artillery Systems - EMD	0604854A	120	05	Volume 3c - 59
Combating Weapons of Mass Destruction (CWMD)	0605036A	126	05	Volume 3c - 214
Common Infrared Countermeasures (CIRCM)	0605035A	125	05	Volume 3c - 206
Contract Writing System	0605047A	130	05	Volume 3c - 269
Defensive CYBER Tool Development	0605041A	128	05	Volume 3c - 227
Emerging Technology Initiatives	0605054A	135	05	Volume 3c - 360
General Fund Enterprise Business System (GFEBS)	0604822A	117	05	Volume 3c - 1
Ground Robotics	0605053A	134	05	Volume 3c - 330
Indirect Fire Protection Capability Inc 2 - Block 1	0605052A	133	05	Volume 3c - 311
Information Technology Development	0605013A	121	05	Volume 3c - 76
Integrated Personnel and Pay System-Army (IPPS-A)	0605018A	122	05	Volume 3c - 161
Joint Tactical Network (JTN)	0605031A	124	05	Volume 3c - 184
Joint Tactical Network Center (JTNC)	0605030A	123	05	Volume 3c - 174
Missile Warning System Modernization (MWSM)	0605049A	131	05	Volume 3c - 282
Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	0605038A	127	05	Volume 3c - 221
Soldier Systems - Warrior Dem/Val	0604827A	118	05	Volume 3c - 15

Program Element Title	Program Element Number	Line #	BA	Page
Suite of Survivability Enhancement Systems - EMD	0604852A	119	05	Volume 3c - 46
Tactical Network Radio Systems (Low-Tier)	0605042A	129	05	Volume 3c - 253

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604822A *I General Fund Enterprise Business System (GFEBS)*

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	10.022	2.965	1.995	-	1.995	2.035	2.077	2.117	2.159	0.000	23.370
DV6: *General Fund Enterprise Business System*	-	2.084	-	-	-	-	-	-	-	-	0.000	2.084
GF5: *General Fund Enterprise Business System*	-	7.938	2.965	1.995	-	1.995	2.035	2.077	2.117	2.159	0.000	21.286

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 (sustainment) and application capability support transitioned to Army Shared Services Center (ASSC). FY 2023 RDT&E funding supported continuous enhancements to the GFEBS-SA SIPR capabilities to ensure appropriate security measures are in place to protect sensitive financial data. GFEBS-SA RDT&E efforts have been rolled into GFEBS (GF5) therefore DV6 has no funding request beyond FY 2023.

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).

FY 2025 Base dollars in the amount of $1.995 million will continue to support enhancements, such as 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 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 in mission performance and improvement of automated system processes and continue 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.

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 2032. 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)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	10.402	2.965	2.002	-	2.002
Current President's Budget	10.022	2.965	1.995	-	1.995
Total Adjustments	-0.380	0.000	-0.007	-	-0.007
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.380	-			
• Adjustments to Budget Years	-	-	-0.007	-	-0.007

Change Summary Explanation

Army approved minor reduction.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	Project (Number/Name) DV6 / *General Fund Enterprise Business System*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DV6: *General Fund Enterprise Business System*	-	2.084	-	-	-	-	-	-	-	-	0.000	2.084
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 2023 RDT&E funds were used to conduct system enhancements to meet OSD and Army data exchange and interface requirements. The additional capability supports both compliancy to meet audit requirements and updated interfaces to replace sun-setting systems. DV6 has no RDT&E funding request beyond FY 2023.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Software Development	2.084	-	-
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.			
Accomplishments/Planned Programs Subtotals	2.084	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	**Project (Number/Name)** DV6 / *General Fund Enterprise Business System*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

GFEBS-SA was fully deployed in FY 2021; therefore, there are no procurement dollars budgeted in the GFEBS-SA line for FY 2021 and beyond.

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

Software was developed through a single build to achieve full capability. GFEBS-SA consists of a single software release delivered in a limited deployment to the Initial Operational Test and Evaluation (IOT&E) unit, followed by a full deployment to all other users upon successful completion of IOT&E. In FY 2021, GFEBS-SA achieved full deployment and later received approval to proceed with entry into capability support (sustainment).

The program will require modernization enhancements while in capability support. Capability Support functions of all prioritized system enhancements for GFEBS-SA system transitioned to Army Shared Services Center in FY 2021.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	**Project (Number/Name)** DV6 / *General Fund Enterprise Business System*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Capability Enhancements	C/Various	Accenture Federal LLC : Alexandria, VA	4.862	2.084	May 2023	-		-		-		-	0.000	6.946	-
		Subtotal	4.862	2.084		-		-		-		-	0.000	6.946	N/A

Remarks

The current contract is a hybrid of FFP, CPFF, and CR CLINs for system development, landscape configuration, test and evaluation, solution delivery, and certification and accreditation.
In FY 2022 GFEBS-SA system enhancement work utilized Army Shared Service Center Unified contract. Cost to Complete assumes a service life through FY 2030. Some of this support will take place on a follow-on contract.

Unified contract Base Period: 1 May 2021 through 30 April 2022; Option Period 1: 1 May 2022 though 30 April 2023.

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4.862	2.084		-		-		-		-	0.000	6.946	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	**Project (Number/Name)** DV6 / *General Fund Enterprise Business System*

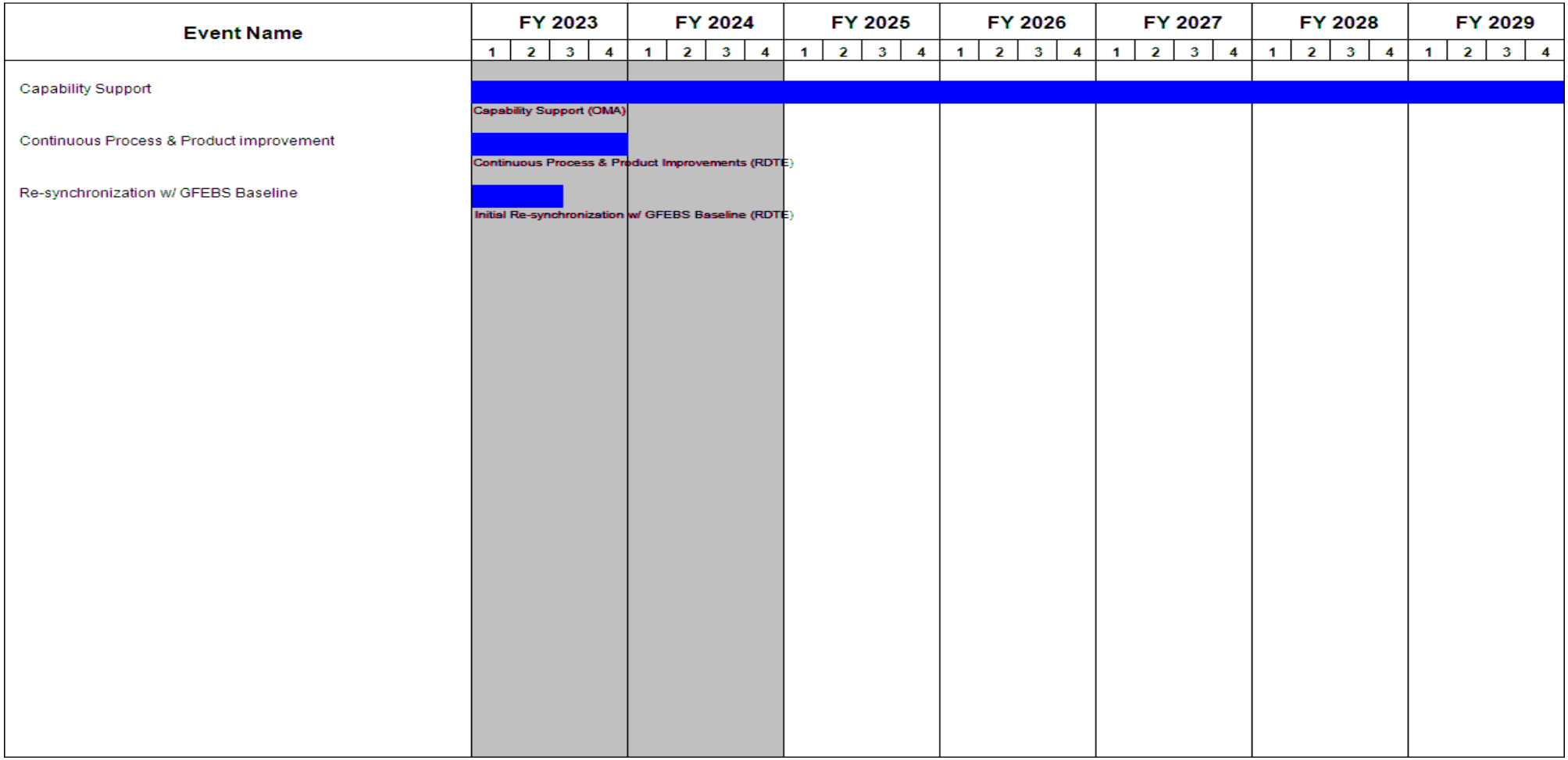


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	**Project (Number/Name)** DV6 / *General Fund Enterprise Business System*

Schedule Details

	Start		End	
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	2029
Continuous Process & Product improvement	3	2021	4	2023
Re-synchronization w/ GFEBS Baseline	1	2022	3	2023

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	Project (Number/Name) GF5 / *General Fund Enterprise Business System*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
GF5: *General Fund Enterprise Business System*	-	7.938	2.965	1.995	-	1.995	2.035	2.077	2.117	2.159	0.000	21.286
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).

FY 2025 Base dollars in the amount of $1.995 million will continue to support increases in mission performance and improvement of automatized system processes, and additional audit-related enhancements. 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 2023	FY 2024	FY 2025
Title: Capability Enhancement	7.938	2.965	1.995
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 2024 Plans: The RDT&E funds requested in FY 2024 will continue to support the completion of the audit-related system enhancements which will provide the Army an auditable financial system designed to meet audit readiness standards as outlined by the United States Government Accountability Office. The FY 2024 RDT&E will support enhancements, for example, system upgrade in support			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	**Project (Number/Name)** GF5 / *General Fund Enterprise Business System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
interfaces to improve system performance, accountability, and auditability efforts. The funds will also continue to support the integration and implementation of the next generation of Enterprise Business Systems capabilities. ***FY 2025 Plans:*** FY 2025 Base dollars will continue to support increases in mission performance and improvement of automatized system processes, and additional audit-related enhancements. 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. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease in FY 2025 funds due to reduced audit-related enhancement requirements.			
Accomplishments/Planned Programs Subtotals	7.938	2.965	1.995

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• BE4168: *General Fund Enterprise Business System*	0.097	-	0.000	-	0.000	-	-	-	-	0.000	0.097
• OMA - GFEB APE 438001000 / 5T0: *GFEBS OMA*	63.397	53.629	55.717	-	55.717	51.696	51.855	50.297	51.377	Continuing	Continuing

Remarks

OPA - FY 2023 Procurement dollars supported 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

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	**Project (Number/Name)** GF5 / *General Fund Enterprise Business System*

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 Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	Project (Number/Name) GF5 / *General Fund Enterprise Business System*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Capability Enhancements	C/Various	Accenture Federal LLC : Arlington, VA 22203	10.533	7.938	May 2023	2.965	May 2024	1.995	May 2025	-		1.995	Continuing	Continuing	-
		Subtotal	10.533	7.938		2.965		1.995		-		1.995	Continuing	Continuing	N/A

Remarks

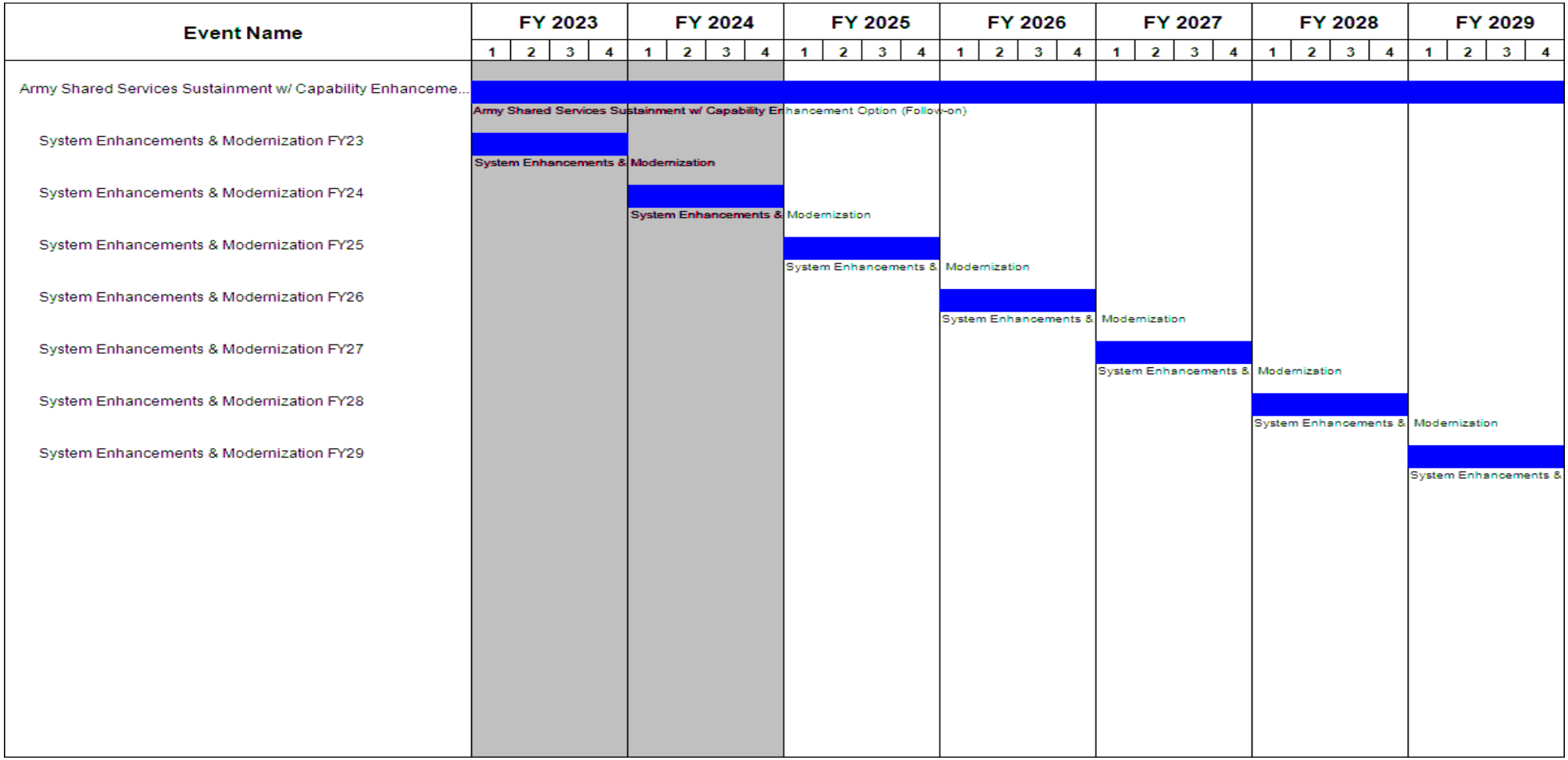
Beginning in FY 2022 GFEBS system enhancement work will utilize Army Shared Serviced Center Unified contract.

Unified contract Base Period: 1 May 2021 through 30 April 2022; Option Period 1: 1 May 2022 through 30 April 2023.

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	10.533	7.938		2.965		1.995		-		1.995	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	**Project (Number/Name)** GF5 / *General Fund Enterprise Business System*



Note

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.

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	**Project (Number/Name)** GF5 / *General Fund Enterprise Business System*

Schedule Details

	Start		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-on)	2	2022	4	2029
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

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604822A / *General Fund Enterprise Business System (GFEBS)*	**Project (Number/Name)** GF5 / *General Fund Enterprise Business System*

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
System Enhancements & Modernization FY27	1	2027	4	2027
System Enhancements & Modernization FY28	1	2028	4	2028
System Enhancements & Modernization FY29	1	2029	4	2029

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	19.237	11.333	29.132	-	29.132	9.739	14.058	10.082	10.182	Continuing	Continuing
EY2: *Integrated Soldier Power Data System - Core*	-	12.392	4.598	4.591	-	4.591	4.597	4.646	4.698	4.745	Continuing	Continuing
EY4: *Universal Battery Charger*	-	1.230	1.004	0.982	-	0.982	0.982	0.994	1.004	1.013	Continuing	Continuing
FK4: *Soldier Borne Sensor (SBS)*	-	1.621	1.656	1.637	-	1.637	4.160	8.418	4.380	4.424	0.000	26.296
LS2: *Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev*	-	-	-	16.363	-	16.363	-	-	-	-	0.000	16.363
S65: *Platoon Power Generator*	-	3.994	4.075	5.559	-	5.559	-	-	-	-	0.000	13.628

Note

PE 0604827A - has a New Start project listed as LS2 Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev.

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.

Project EY2 - 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. EY2 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 (all variants), and the Integrated Visual Augmentation System (IVAS). 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.

Project EY4 - 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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604827A *I Soldier Systems - Warrior Dem/Val*

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.

Project LS2 - Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev: This project focuses on the development, testing and qualification of Loitering Munitions in support of the Lethal Unmanned Systems (LUS) Directed Requirement (DR) approved on 09 December 2022. Infantry Brigade Combat Teams (IBCTs) lack adequate proportional organic capabilities at echelon to apply immediate, point, long range, and direct fire effects to destroy tanks, light armored vehicles, hardened targets, defilade, and personnel targets, while producing minimal collateral damage in complex terrain in all environmental conditions. The LUS DR dated 09 December 2022 addresses this capability gap with Low Altitude Stalking and Strike Ordnance (LASSO). The LUS DR is to rapidly deliver multiple tranches of capability using a "buy, try, decide" methodology to increase organic lethality in the IBCTs and inform future requirements. The funding contained within this budget line and project will conduct evaluations of technologies and capabilities in the loitering munitions capability space. Depending on the maturity of evaluated systems, limited developmental, safety and materiel release testing may be done to enable fielding of products in support of the LUS DR. FY25 funding in the amount of $16.363 million is in support of the Pacific Defense Initiative.

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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	19.408	11.333	7.338	-	7.338
Current President's Budget	19.237	11.333	29.132	-	29.132
Total Adjustments	-0.171	0.000	21.794	-	21.794
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.248	-			
• SBIR/STTR Transfer	-0.419	-			
• Adjustments to Budget Years	-	-	21.794	-	21.794

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
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 Subtotals for Project: EY2	8.000	-
Congressional Add Totals for all Projects	8.000	-

Change Summary Explanation

Funding increase for Platoon Power Generator development and initiates development activities for Lethal Semi-Autonomous Aerial Unmanned Systems.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*				Project (Number/Name) EY2 / *Integrated Soldier Power Data System - Core*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
EY2: *Integrated Soldier Power Data System - Core*	-	12.392	4.598	4.591	-	4.591	4.597	4.646	4.698	4.745	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, Soldier-worn power generation (fuel cell), 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. EY2 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 (all variants), and the Integrated Visual Augmentation System (IVAS). 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.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Test and Evaluation	0.160	0.943	1.531
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. ***FY 2024 Plans:*** 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 2025 Plans:*** 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 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 Increase reflects the shift of development efforts to evaluation and testing as well as the requirement to support user evaluation events.			
Title: System Engineering & Program Management	0.909	0.601	0.605

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** EY2 / *Integrated Soldier Power Data System - Core*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: Conduct system engineering and project management for ISDPS-C efforts and power characterization efforts. ***FY 2024 Plans:*** Continue to conduct system engineering, project management, and additional research and development center power characterization studies for dismounted Soldier equipment and ISPDS-C efforts. ***FY 2025 Plans:*** Continue to conduct system engineering, project management, and additional research and development center power characterization studies for dismounted Soldier equipment and ISPDS-C efforts. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increase reflects minor adjustments to program management costs.			
Title: ISPDS-C/CWB Capability Improvements Integration ***Description:*** Evaluate higher energy density power, alternative energy solutions and improved power data management (e.g. improved battery chemistry, charging on the move development, Soldier worn power generation). ***FY 2024 Plans:*** Continued integration of alternative power technologies and higher energy density batteries and cells for the dismounted Soldier. ***FY 2025 Plans:*** Continued integration of alternative power technologies and higher energy density batteries and cells for the dismounted Soldier. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 decrease reflects a slight reduction in efforts pursuing ISPDS-C and CWB improvements and integration efforts.	2.155	2.291	2.055
Title: Develop alternative CWB sources. ***Description:*** Develop alternative CWB sources. ***FY 2024 Plans:*** Continue to develop and evaluate incremental improvements in alternative power storage technologies to increase overall power and energy capacity. ***FY 2025 Plans:*** Continue to develop and evaluate incremental improvements in alternative power storage technologies to increase overall power and energy capacity. ***FY 2024 to FY 2025 Increase/Decrease Statement:***	1.168	0.763	0.400

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** EY2 / *Integrated Soldier Power Data System - Core*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 decrease represents a realignment of efforts and priorities.			
Accomplishments/Planned Programs Subtotals	4.392	4.598	4.591

	FY 2023	FY 2024
Congressional Add: Conformal wearable battery ***FY 2023 Accomplishments:*** Funding will be used for the development of advanced battery technology in support of Conformal Wearable Battery program.	5.000	-
Congressional Add: Wearable fuel cell development ***FY 2023 Accomplishments:*** Funding will be used for the development of wearable fuel cell technologies to reduce size, weight, and manufacturing complexity.	3.000	-
Congressional Adds Subtotals	8.000	-

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• R08090: *Integrated Soldier Power Data System - Core*	3.826	6.703	7.690	-	7.690	6.348	6.351	6.358	6.420	0.000	43.696

Remarks

D. Acquisition Strategy

Pursue a variety of Soldier power products under full and open competition. Initiatives range from Commercial-Off-The-Shelf (COTS) solutions to developmental efforts. The type of solicitation depends on the maturity of the technology. The power initiatives will be evaluated through scheduled lab and/operational test and evaluation events, and if successful, selected for procurement and subsequent fielding and sustainment. The acquisition strategy varies by product. For example, the CWB acquisition strategy consists of two phases: Phase one includes the purchase and evaluation of test articles. Phase two establishes an Indefinite Delivery Indefinite Quantity (IDIQ) contract through the Army Contracting Command (ACC) which maximizes competition to transition to production.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*	Project (Number/Name) EY2 / *Integrated Soldier Power Data System - Core*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering & Program Management Support	MIPR	Various : Various	2.889	0.909	Aug 2023	0.601	Jan 2024	0.605	Jan 2025	-		0.605	Continuing	Continuing	-
		Subtotal	2.889	0.909		0.601		0.605		-		0.605	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ISPDS-C, CWB Capability Improvements Integration	MIPR	Various : Various	9.023	7.155	Sep 2023	2.291	Feb 2024	2.055	Mar 2025	-		2.055	Continuing	Continuing	-
Develop alternative CWB sources	MIPR	Various : Various	3.963	4.168	Feb 2023	0.763	Feb 2024	0.400	Feb 2025	-		0.400	Continuing	Continuing	-
		Subtotal	12.986	11.323		3.054		2.455		-		2.455	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	MIPR	Various : Various	2.688	0.160	Dec 2023	0.943	Mar 2024	1.531	Mar 2025	-		1.531	Continuing	Continuing	-
		Subtotal	2.688	0.160		0.943		1.531		-		1.531	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	18.563	12.392		4.598		4.591		-		4.591	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 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** EY2 / *Integrated Soldier Power Data System - Core*

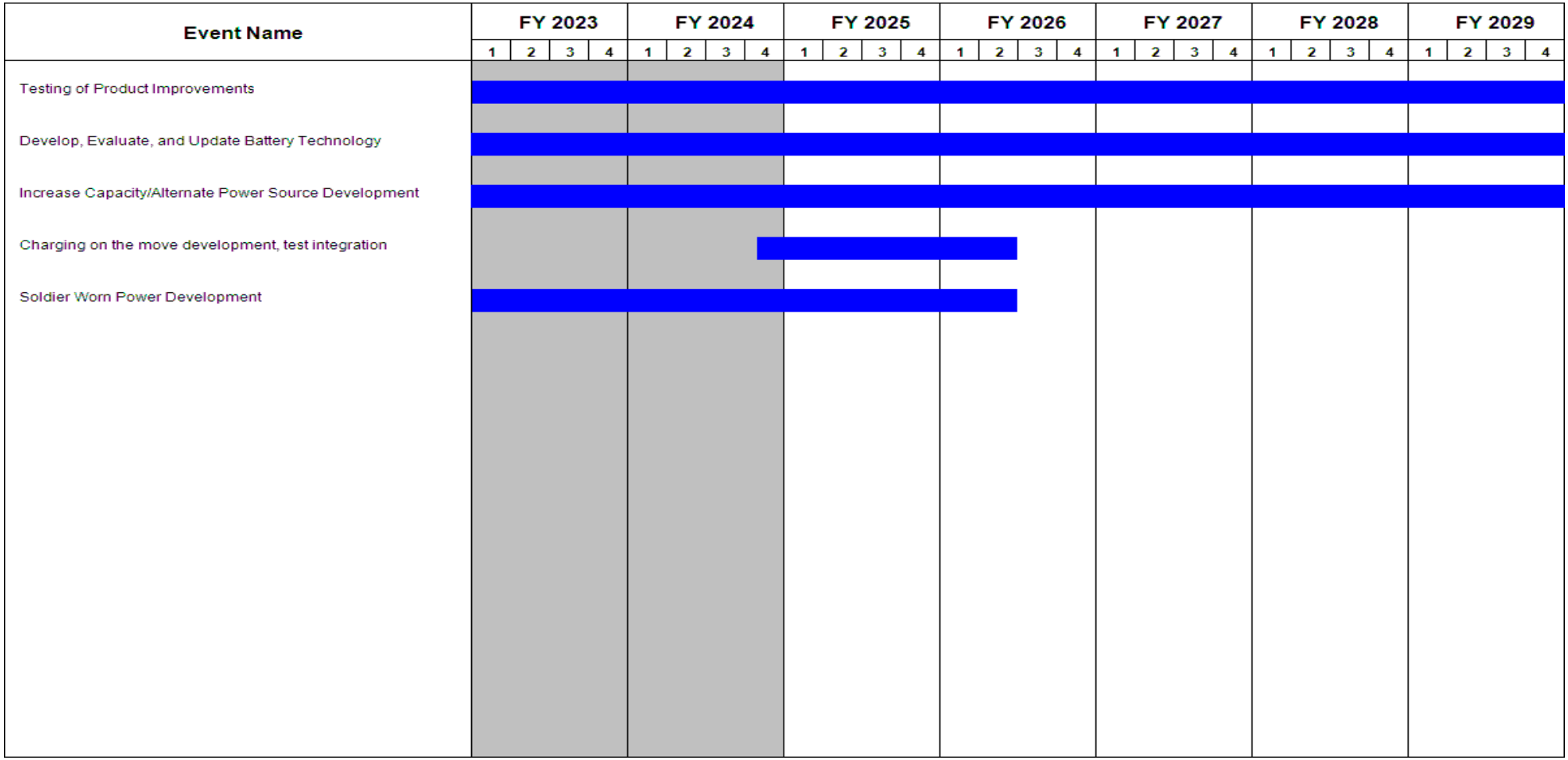


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** EY2 / *Integrated Soldier Power Data System - Core*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**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
Charging on the move development, test integration	4	2024	2	2026
Soldier Worn Power Development	1	2020	2	2026

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*	Project (Number/Name) EY4 / *Universal Battery Charger*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EY4: *Universal Battery Charger*	-	1.230	1.004	0.982	-	0.982	0.982	0.994	1.004	1.013	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 2023	FY 2024	FY 2025
Title: Test & Evaluation ***Description:*** Develop and evaluate improved UBC products, including bulk charging and power 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 2025 Plans:*** Continue to evaluate improved UBC products, including bulk charging, and integrate platform power on the move charging systems. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The FY 2025 decrease reflects a minor change in the effort.	1.005	0.735	0.705
Title: System Engineering & Program Management ***Description:*** Description: Conduct system engineering and project management for UBC efforts. ***FY 2024 Plans:*** Conduct systems engineering, project management, and logistics management for UBC product line. ***FY 2025 Plans:***	0.225	0.269	0.277

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** EY4 / *Universal Battery Charger*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Conduct systems engineering, project management, and logistics management for UBC product line. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The FY 2025 increase reflects minor adjustments to the program management costs.			
Accomplishments/Planned Programs Subtotals	1.230	1.004	0.982

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• R09103: *Universal Battery Charger*	9.208	9.264	7.594	-	7.594	7.334	7.339	7.346	7.420	0.000	55.505

Remarks

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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** EY4 / *Universal Battery Charger*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering/ Program Management Support	MIPR	Various : Various	0.877	0.225	Mar 2023	0.269	Jan 2024	0.277	Feb 2025	-		0.277	Continuing	Continuing	-
		Subtotal	0.877	0.225		0.269		0.277		-		0.277	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation	MIPR	Various : Various	5.198	1.005	Aug 2023	0.735	Mar 2024	0.705	Mar 2025	-		0.705	Continuing	Continuing	-
		Subtotal	5.198	1.005		0.735		0.705		-		0.705	Continuing	Continuing	N/A

Remarks

Cost increase from FY 2024 to FY 2025 is due to project convergence activities.

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	6.075	1.230		1.004		0.982		-		0.982	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 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** EY4 / *Universal Battery Charger*

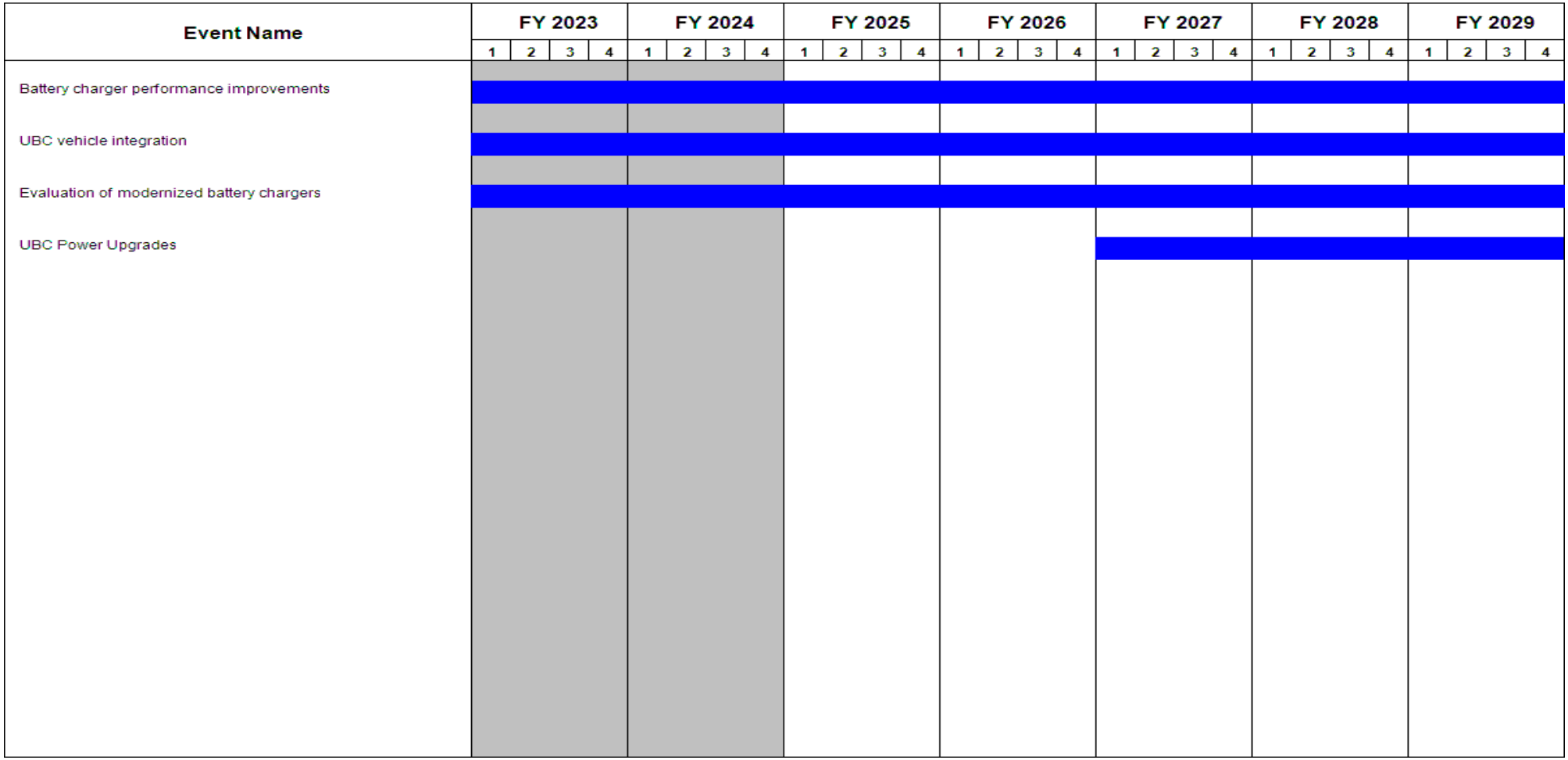


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** EY4 / *Universal Battery Charger*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Battery charger performance improvements	1	2022	4	2031
UBC vehicle integration	2	2022	4	2032
Evaluation of modernized battery chargers	3	2022	4	2031
UBC Power Upgrades	1	2027	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*	Project (Number/Name) FK4 / *Soldier Borne Sensor (SBS)*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FK4: *Soldier Borne Sensor (SBS)*	-	1.621	1.656	1.637	-	1.637	4.160	8.418	4.380	4.424	0.000	26.296
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Soldier Borne Sensor (SBS)	1.621	1.656	1.637
Description: The SBS provides the squad a "quick look" capability providing Situational Awareness (SA). ***FY 2024 Plans:*** 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 2025 Plans:*** This program will continue to develop and test 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, novel battery chemistries, and other emerging requirements. The program will continue to integrate Science and Technology (S&T) portfolio work on efficient target detection, and integrate SBS with systems such as Nett Warrior, Enhanced Night Vision Goggle - Binocular (ENVG-B) and Integrated Visual Augmentation System (IVAS). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease in funding from FY 2024 to FY 2025 represents minor changes to the program efforts.			
Accomplishments/Planned Programs Subtotals	1.621	1.656	1.637

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** FK4 / *Soldier Borne Sensor (SBS)*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• W63798: *Soldier Borne Sensor (SBS)*	20.376	22.565	22.001	-	22.001	-	-	12.757	12.883	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 FY25 and beyond.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*	Project (Number/Name) FK4 / *Soldier Borne Sensor (SBS)*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Admin (PMA)	MIPR	Various : Various	0.279	0.039	Sep 2023	0.080	Jan 2024	0.060	Sep 2025	-		0.060	0.000	0.458	-
		Subtotal	0.279	0.039		0.080		0.060		-		0.060	0.000	0.458	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Phase 2 Prototype	C/FFP	Vantage Robotics : San Leandro, CA 95577	2.148	0.528	Jul 2023	0.322	Feb 2024	-		-		-	0.000	2.998	2.534
Phase 2 Prototype	C/FFP	Teledyne FLIR : Wilsonville, OR 97070	0.158	0.249	Jul 2023	0.322	Feb 2024	-		-		-	0.000	0.729	-
Phase 2 Production OTA Qual & Eval CLINS	TBD	TBD : TBD	-	-		-		0.750	Nov 2024	-		0.750	0.000	0.750	-
Autonomy and Interoperability Development and Integration	TBD	Various : Various	0.421	0.561	May 2023	0.134	Nov 2023	0.527	Jan 2025	-		0.527	0.000	1.643	-
		Subtotal	2.727	1.338		0.778		1.277		-		1.277	0.000	6.120	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	Various	Various : Multiple	0.450	-		0.080	Nov 2023	-		-		-	0.000	0.530	-
		Subtotal	0.450	-		0.080		-		-		-	0.000	0.530	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*	Project (Number/Name) FK4 / *Soldier Borne Sensor (SBS)*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Phase 2- Technology Integration and Testing	TBD	Various : Various	0.520	0.244	May 2023	0.718	Nov 2023	0.300	Jul 2025	-		0.300	0.000	1.782	-
		Subtotal	0.520	0.244		0.718		0.300		-		0.300	0.000	1.782	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	3.976	1.621		1.656		1.637		-		1.637	0.000	8.890	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** FK4 / *Soldier Borne Sensor (SBS)*

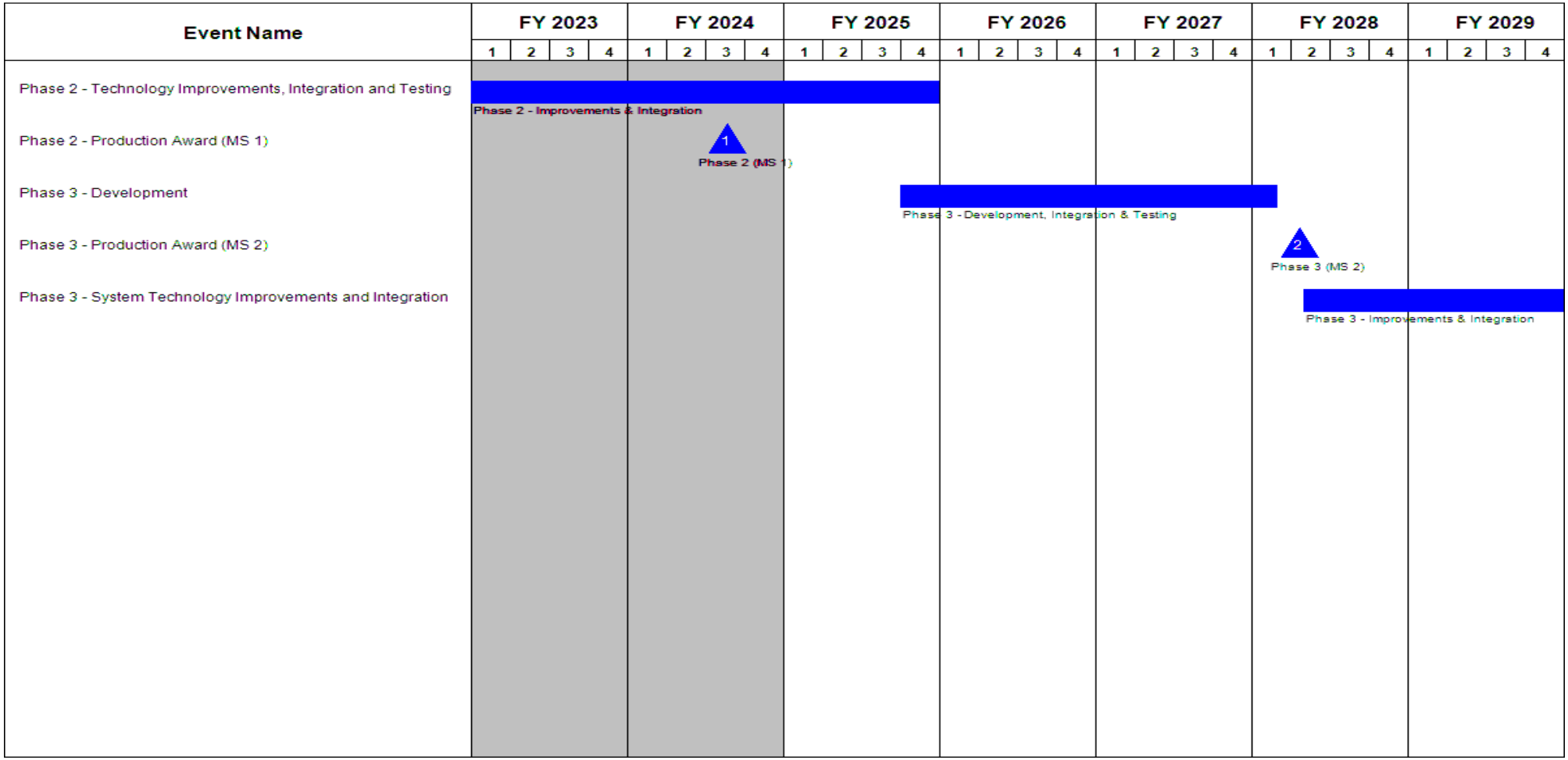


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** FK4 / *Soldier Borne Sensor (SBS)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Phase 2 - Technology Improvements, Integration and Testing	3	2020	4	2025
Phase 2 - Production Award (MS 1)	3	2024	3	2024
Phase 3 - Development	4	2025	1	2028
Phase 3 - Production Award (MS 2)	2	2028	2	2028
Phase 3 - System Technology Improvements and Integration	2	2028	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*	Project (Number/Name) LS2 / *Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
LS2: *Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev*	-	-	-	16.363	-	16.363	-	-	-	-	0.000	16.363
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev is a new start within the Soldier Systems - Warrior Dem/Val program in FY 2025.

A. Mission Description and Budget Item Justification

Project LS2 - Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev: This project focuses on the development, testing and qualification of Loitering Munitions in support of the Lethal Unmanned Systems (LUS) Directed Requirement (DR) approved on 09 December 2022. Infantry Brigade Combat Teams (IBCTs) lack adequate proportional organic capabilities at echelon to apply immediate, point, long range, and direct fire effects to destroy tanks, light armored vehicles, hardened targets, defilade, and personnel targets, while producing minimal collateral damage in complex terrain in all environmental conditions. The LUS DR dated 09 December 2022 addresses this capability gap with Low Altitude Stalking and Strike Ordnance (LASSO). The LUS DR is to rapidly deliver multiple tranches of capability using a "buy, try, decide" methodology to increase organic lethality in the IBCTs and inform future requirements. The funding contained within this budget line and project will conduct evaluations of technologies and capabilities in the loitering munitions capability space. Depending on the maturity of evaluated systems, limited developmental, safety and materiel release, testing may be done to enable fielding of products in support of the LUS DR.

FY25 funding in the amount of $16.363 million is in support of the Pacific Defense Initiative.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Low Altitude Stalking and Strike Ordnance (LASSO)	-	-	16.363
Description: LASSO is intended to increase the lethality of the IBCT specifically against troops, armored vehicles, and tanks. ***FY 2025 Plans:*** Initiate evaluation of critical capabilities, assess vendor and market maturity, and conduct safety and qualification testing. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 is the first year of funds for the program.			
Accomplishments/Planned Programs Subtotals	-	-	16.363

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** LS2 / *Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev*

C. Other Program Funding Summary ($ in Millions)

Remarks

D. Acquisition Strategy

The plan for the LUS DR is to use the Middle Tier of Acquisition - Rapid Fielding (MTA-RF) pathway to procure and field mature systems. The LUS program and requirement will be replaced by a formal program of record, beginning in FY 2026, with a Capability Development Document (CDD) currently in staffing.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** LS2 / *Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering/ Program Management	C/TBD	Various : Various	-	-		-		2.766	Jan 2025	-		2.766	Continuing	Continuing	Continuing
		Subtotal	-	-		-		2.766		-		2.766	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
LASSO Testing	MIPR	Various : Various	-	-		-		13.597	Feb 2025	-		13.597	Continuing	Continuing	Continuing
		Subtotal	-	-		-		13.597		-		13.597	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		16.363		-		16.363	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** LS2 / *Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev*

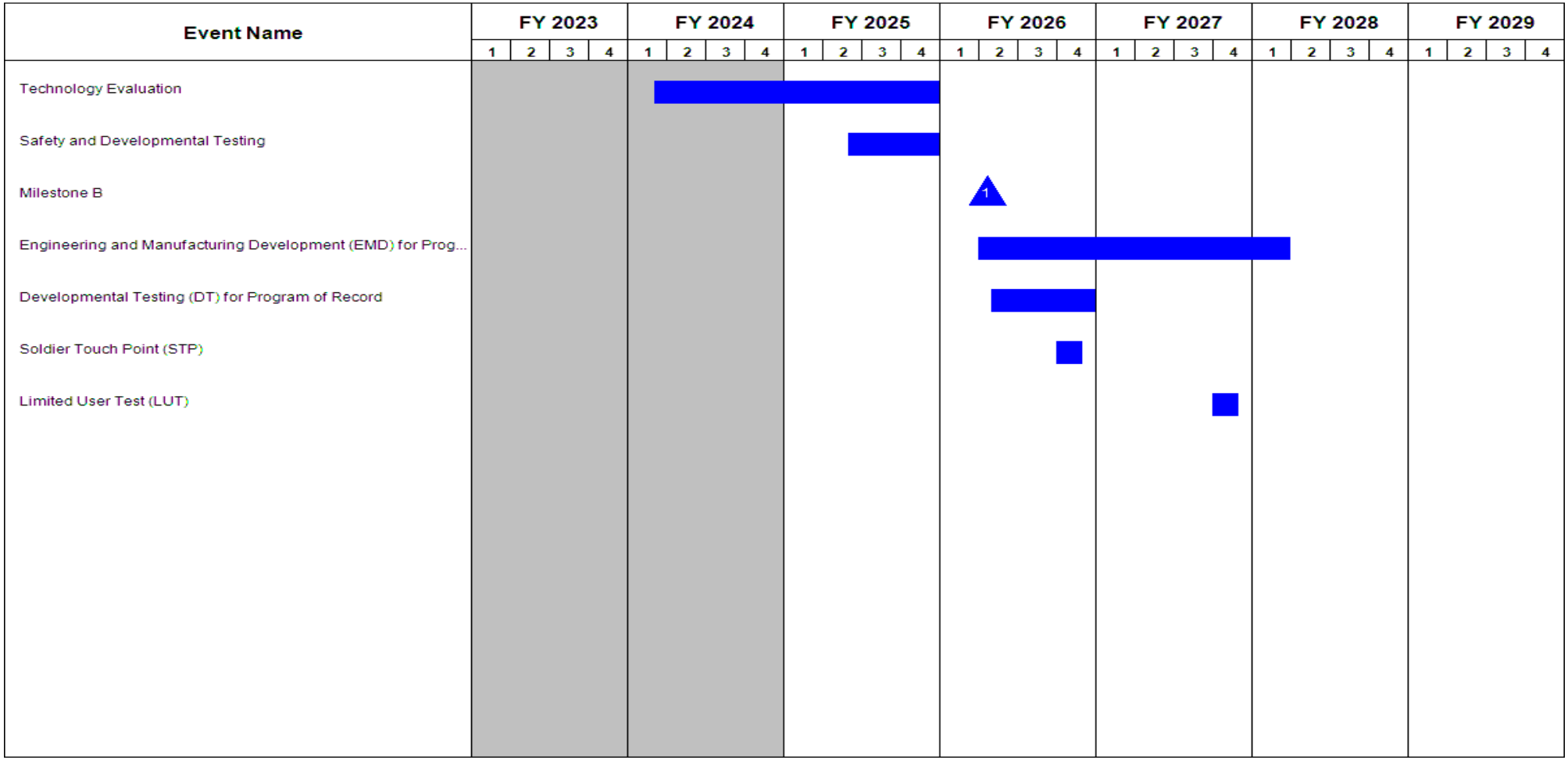


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** LS2 / *Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Technology Evaluation	1	2024	4	2025
Safety and Developmental Testing	2	2025	4	2025
Milestone B	2	2026	2	2026
Engineering and Manufacturing Development (EMD) for Program of Record	2	2026	1	2028
Developmental Testing (DT) for Program of Record	2	2026	4	2026
Soldier Touch Point (STP)	4	2026	4	2026
Limited User Test (LUT)	4	2027	4	2027

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*	Project (Number/Name) S65 / *Platoon Power Generator*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
S65: *Platoon Power Generator*	-	3.994	4.075	5.559	-	5.559	-	-	-	-	0.000	13.628
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

S65-Platoon Power Generator- Small Business Innovative Research (SBIR) Phase III effort will not take place. Program Office is researching opportunities to increase competition in fuel cell technologies to meet solutions. A parallel effort to improve modified spark-ignited commercial-off-the-shelf (COTS) systems will reduce program risk and support SUP Soldier Power bridging solutions.

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 2023	FY 2024	FY 2025
Title: S65-Platoon Power Generator	3.994	4.075	5.559
Description: Spark-ignited COTS Operational Life and Reliability Study (SCOLARS) will improve and increase Soldier-portable systems as a bridging solution, and utilization of open competition for development of fuel cell solutions. ***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 2025 Plans:*** Begin engineering, manufacturing, and development of fuel cell power generation capabilities meeting PPG requirements. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase in funding from FY24-FY25 to begin engineering, manufacturing and development of the Platoon Power Generator and finalize improvements to modified COTS bridging solution.			
Accomplishments/Planned Programs Subtotals	3.994	4.075	5.559

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** S65 / *Platoon Power Generator*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• R08090: *Integrated Soldier Power Data System - Core*	3.826	6.703	7.690	-	7.690	6.348	6.351	6.358	6.420	0.000	43.696
• R09103: *Universal Battery Charger*	9.208	9.264	7.594	-	7.594	7.334	7.339	7.346	7.420	0.000	55.505
• EY2: *Integrated Soldier Power Data System - Core*	12.392	4.598	4.591	-	4.591	4.597	4.646	4.698	4.745	Continuing	Continuing
• EY4: *Universal Battery Charger*	1.230	1.004	0.982	-	0.982	0.982	0.994	1.004	1.013	Continuing	Continuing

Remarks

D. Acquisition Strategy

PEO CS/CSS Effort on the Platoon Power Generation - PM E2S2: Based on the delays and results of the Small Business Innovation Research (SBIR) Phase II contract from the Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) Center in FY23, PM E2S2 will not conduct a SBIR Phase III action. In FY24, PM E2S2 will conduct the Spark-ignited COTS Operational Life and Reliability Study (SCOLARS) to improve and optimize modified spark-ignited Soldier-portable generators to support SUP Soldier Power bridging solutions. In FY25, an open and competitive contract vehicle will be used to begin development of the fuel cell power generation capabilities. The results of the contract, testing and soldier touch points will inform the Milestone C Low-Rate Initial Production decision in FY28.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*	Project (Number/Name) S65 / *Platoon Power Generator*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Platoon Power Generation	Various	PM E2S2 : Fort Belvoir, VA	0.764	0.529	Jun 2023	0.750	Feb 2024	1.337	Oct 2024	-		1.337	Continuing	Continuing	Continuing
		Subtotal	0.764	0.529		0.750		1.337		-		1.337	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Platoon Power Generation	Various	Prototyping and engineering, manufacturing and development efforts : APG, MD; Contractor Sites	9.358	2.165	Sep 2023	1.415	Feb 2024	3.786	Jan 2025	-		3.786	Continuing	Continuing	Continuing
		Subtotal	9.358	2.165		1.415		3.786		-		3.786	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Platoon Power Generation	MIPR	Various : APG; Ft. Belvoir	3.419	-		0.410	Feb 2024	0.429	Oct 2024	-		0.429	Continuing	Continuing	Continuing
		Subtotal	3.419	-		0.410		0.429		-		0.429	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Platoon Power Generation	MIPR	Test and evaluation efforts : APG; Ft. Moore	1.340	1.300	Sep 2023	1.500	Feb 2024	0.007	Mar 2025	-		0.007	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / *Soldier Systems - Warrior Dem/Val*	Project (Number/Name) S65 / *Platoon Power Generator*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	1.340	1.300		1.500		0.007		-		0.007	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	14.881	3.994		4.075		5.559		-		5.559	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** S65 / *Platoon Power Generator*

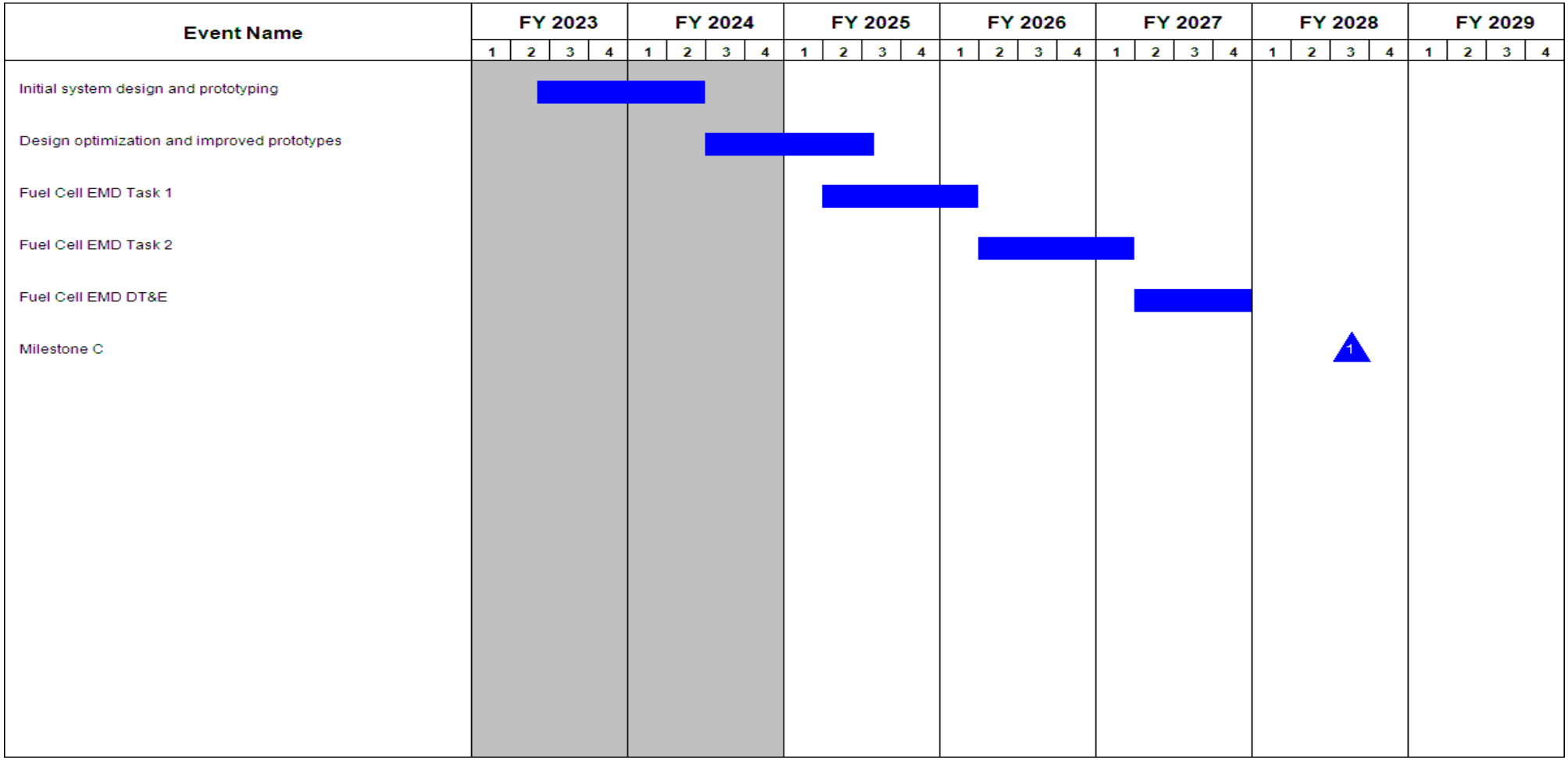


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604827A / *Soldier Systems - Warrior Dem/Val*	**Project (Number/Name)** S65 / *Platoon Power Generator*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Initial system design and prototyping	2	2023	2	2024
Design optimization and improved prototypes	3	2024	3	2025
Fuel Cell EMD Task 1	2	2025	1	2026
Fuel Cell EMD Task 2	2	2026	1	2027
Fuel Cell EMD DT&E	2	2027	4	2027
Milestone C	3	2028	3	2028

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	75.520	79.250	77.864	-	77.864	77.953	78.787	79.668	80.465	0.000	549.507
FE8: *Vehicle Protection Suite*	-	75.520	79.250	77.864	-	77.864	77.953	78.787	79.668	80.465	0.000	549.507

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)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	100.384	79.250	79.688	-	79.688
Current President's Budget	75.520	79.250	77.864	-	77.864
Total Adjustments	-24.864	0.000	-1.824	-	-1.824
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-21.200	-			
• SBIR/STTR Transfer	-3.664	-			
• Adjustments to Budget Years	-	-	-1.824	-	-1.824

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604852A *I Suite of Survivability Enhancement Systems - EMD*

Change Summary Explanation

Decreased funding in FY25 due to reduced requirement for Vehicle Protection System Base Kit Integration of Non-Developmental Items (NDI) and Developmental Technologies.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	Project (Number/Name) FE8 / *Vehicle Protection Suite*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FE8: *Vehicle Protection Suite*	-	75.520	79.250	77.864	-	77.864	77.953	78.787	79.668	80.465	0.000	549.507
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 2023	FY 2024	FY 2025
Title: Vehicle Protection System Base Kit Integration of Non-Developmental Items (NDI) and Developmental Technologies	46.560	46.475	24.211
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 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 2025 Plans: On AMPV and Stryker, continue VBK with LWR integration, vehicle level testing, logistic product development and ATEC developmental and operational test (DT/OT) planning. Complete Abrams developmental and operational testing (DT/OT). Begin VBK with LWR integration design efforts on M10 Booker (MPF), which includes integration design development, platform prototype build, and logistics products development, and begin ATEC Developmental and Operational Test planning.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	**Project (Number/Name)** FE8 / *Vehicle Protection Suite*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Funding decrease is due to completion of VBK with LWR integration onto Abrams and completion of developmental testing and operational testing (DT/OT) for Bradley.			
Title: Survivability Improvements	20.151	18.843	43.984
Description: Funding for the continued maturation of Science and Technology (S&T) funded protection technologies, continued maturation, design development of the platform integration, test, logistic product development, and fielding of active, reactive, and passive survivability improvements onto ground combat vehicle platforms. ***FY 2024 Plans:*** Continue passive and reactive armor tile engineering development, testing, and logistic product development on ground combat platforms. Continue interim Soft Kill acquisition program for system maturation to support future integration activities on ground combat platforms. Continued engineering studies, characterization / demonstrations, improvement assessments, B-kit development, platform integration, and testing of Active Protection Systems, Camouflage, Concealment, Deception and Obscuration (CCDO) (Signature Management (SIGMAN)) and other emerging technologies. Continue execution of Bradley expedited active protection system to include system-level testing, UMR activities, planning to support future Conditional Material Release, and delta A Kit development to support MAF compliant system. ***FY 2025 Plans:*** Continue passive and reactive armor tile engineering development, testing, Technical Data Package and logistic product development on ground combat platforms. Continue interim Soft Kill acquisition program for system maturation to support future integration activities on ground combat platforms. Continued engineering studies, characterization / demonstrations, improvement assessments, B-kit development, platform integration, and testing of Active Protection Systems, Camouflage, Concealment, Deception and Obscuration (CCDO) (Signature Management (SIGMAN)) and other emerging technologies. Initiate Softkill Phase 1 EMD B Kit Maturation. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increase supports EMD Contract Award for Softkill Phase 1.			
Title: Vehicle Protection Suite Government Engineering and Program Management	8.809	10.869	9.669
Description: Government program management support and program oversight. ***FY 2024 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	**Project (Number/Name)** FE8 / *Vehicle Protection Suite*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Funding is provided for program management support for VPS programs to include VPS Base Kits (VBK) w/LWR, Survivability Improvements (RAT and Signature Management (CCDO)), trade studies, platform integration, vehicle testing, and logistic product development. ***FY 2025 Plans:*** Funding is provided for program management support for VPS programs to include VPS Base Kit (VBK) w/LWR, Survivability Improvements (RAT, Signature Management (CCDO), and Softkill Phase 1), platform integration, vehicle testing, and logistic product development. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding decrease to Program Management is in accordance with FY24 Congressional Marks to maintain Program Management level of effort.			
Title: VPS Trade Study ***Description:*** VPS will execute a trade study/feasibility assessment to identify capabilities for active, reactive and passive protection solutions, to pursue in the next phase of the program (Future Tranches). A Trade Study/feasibility assessment will provide the data deemed sufficient for the identification of capabilities to pursue in Future Tranches. This Trade Study/feasibility assessment will build off previous studies to identify the benefit of adding capabilities to current set. The trade study/feasibility assessment will also look at emerging threats to identify capabilities and evolution of those capabilities used to protect against those threats. ***FY 2024 Plans:*** VPS will identify preemptive, active, reactive, passive (or a combination thereof) vehicle defense capabilities that are mature. The trade study/feasibility assessment will look at capabilities that are able to detect, track, divert, disrupt, neutralize, and/or destroy incoming threats, non-lethal/lethal unmanned aircraft systems (UAS), air to ground missiles, Improvised Explosive Device (IEDs)/mines, as well as prevent, mitigate and recover from Electronic Warfare (EW) and Cyber threats. These capabilities will be analyzed via a Trade Study/feasibility assessment and/or characterization/demonstration to understand the benefit the capability or combination of capabilities provide to address platform capability gaps. This analysis will identify capabilities to pursue in future tranches. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding decrease is due to VPS Trade Studies/Feasibility assessments being conducted every other fiscal year.	-	3.063	-
Accomplishments/Planned Programs Subtotals	75.520	79.250	77.864

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	**Project (Number/Name)** FE8 / *Vehicle Protection Suite*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• E97900: *REACTIVE ARMOR TILES*	59.127	-	0.000	-	0.000	-	-	-	-	0.000	59.127

Remarks

On 21 SEPT 2016 - Directed Requirement for Reactive Armor Tiles and Installation Kits received and on 17 NOV 2017 Army Requirements Oversight Council (AROC) approved VPS ICD as the requirements to move forward with production of reactive armor tiles for the Armored Multi-Purpose Vehicle (AMPV) in Fiscal Year (FY) 2022, $17.755 million APPN: 2034A; BA 1; Line Item Number: 9847E97900; Title: Reactive Armor Tiles.

NOV 2020 Army Requirements Oversight Council (AROC) approved VPS Capability Development Document (CDD) and on 16 DEC 2020 AROCM 20-27 approved the CDD for protection improvements to include VPS Base Kit, Softkill, Hardkill, LWR, Signature Management and Obscuration, SEPT 2021 CARD # 03005 was approved for VPS CDD and resides within the JCIDS repository.

June 2023 Annual VPS Governance Board was held and approved by the co-chaired Maneuver Capabilities Development and Integration Directorate (MCDID) and Next Generation Combat Vehicle (NGCV) Cross Functional Team (CFT).

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 Reactive Armor Tiles, Vehicle Base Kit with Laser Warning Receiver 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 known 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 was initiated in FY 2022 to define the next set of VPS technologies, based on evolving enemy threats, to focus on. These capabilities 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 formation protection and integration of artificial intelligence into vehicle survivability technologies.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	Project (Number/Name) FE8 / *Vehicle Protection Suite*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Vehicle Protection Suite Program Management	MIPR	TACOM/GVSC Warren, Michigan : Various	24.738	8.809	Oct 2022	10.869	Dec 2023	9.669	Dec 2024	-		9.669	24.549	78.634	-
		Subtotal	24.738	8.809		10.869		9.669		-		9.669	24.549	78.634	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Vehicle Protection System Base Kit	Various	Various: TBD : TBD	101.601	43.121	Jun 2023	32.262	Jun 2024	20.177	Jun 2025	-		20.177	32.010	229.171	-
Survivability Improvements	Various	Various TACOM Warren : Warren, MI	38.280	11.732	Jan 2023	16.913	Jan 2024	34.979	Mar 2025	-		34.979	230.687	332.591	-
		Subtotal	139.881	54.853		49.175		55.156		-		55.156	262.697	561.762	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Vehicle Protection Suite Trade Study	MIPR	Various : TACOM Warren Michigan	6.053	-		3.063	Mar 2024	-		-		-	0.000	9.116	-
		Subtotal	6.053	-		3.063		-		-		-	0.000	9.116	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Survivability Improvements	MIPR	Various Army Test and Evaluation Command (ATEC) : Various	9.169	8.419	Jun 2023	1.930	Jun 2023	9.005	Jun 2025	-		9.005	1.823	30.346	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	Project (Number/Name) FE8 / *Vehicle Protection Suite*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Vehicle Protection System Base Kit	MIPR	Various Army Test and Evaluation Command (ATEC) : Various	15.848	3.439	Jun 2023	14.213	Jun 2023	4.034	Jun 2025	-		4.034	76.663	114.197	-
		Subtotal	25.017	11.858		16.143		13.039		-		13.039	78.486	144.543	N/A

Remarks

N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	195.689	75.520		79.250		77.864		-		77.864	365.732	794.055	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	**Project (Number/Name)** FE8 / *Vehicle Protection Suite*

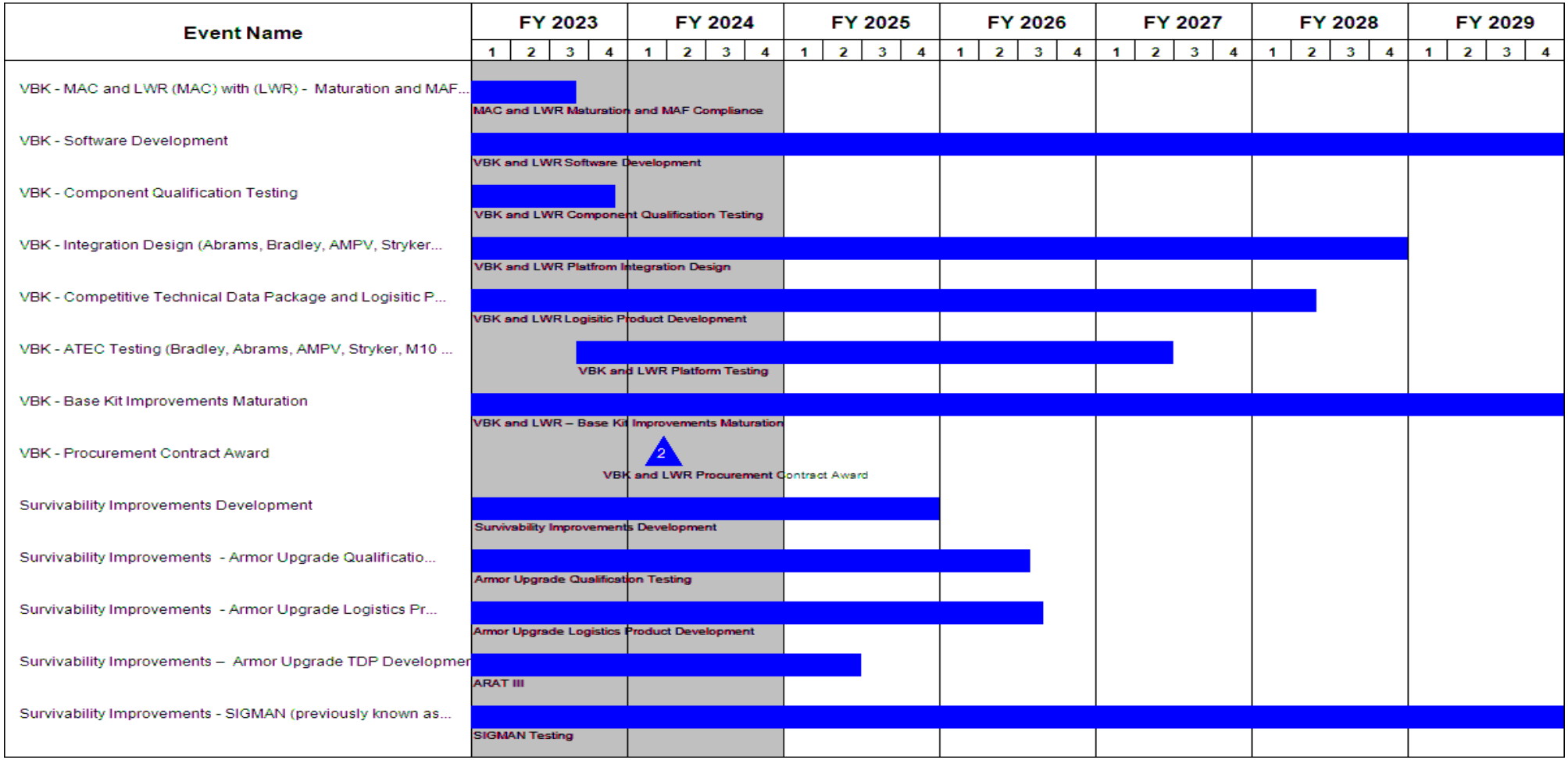


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	**Project (Number/Name)** FE8 / *Vehicle Protection Suite*

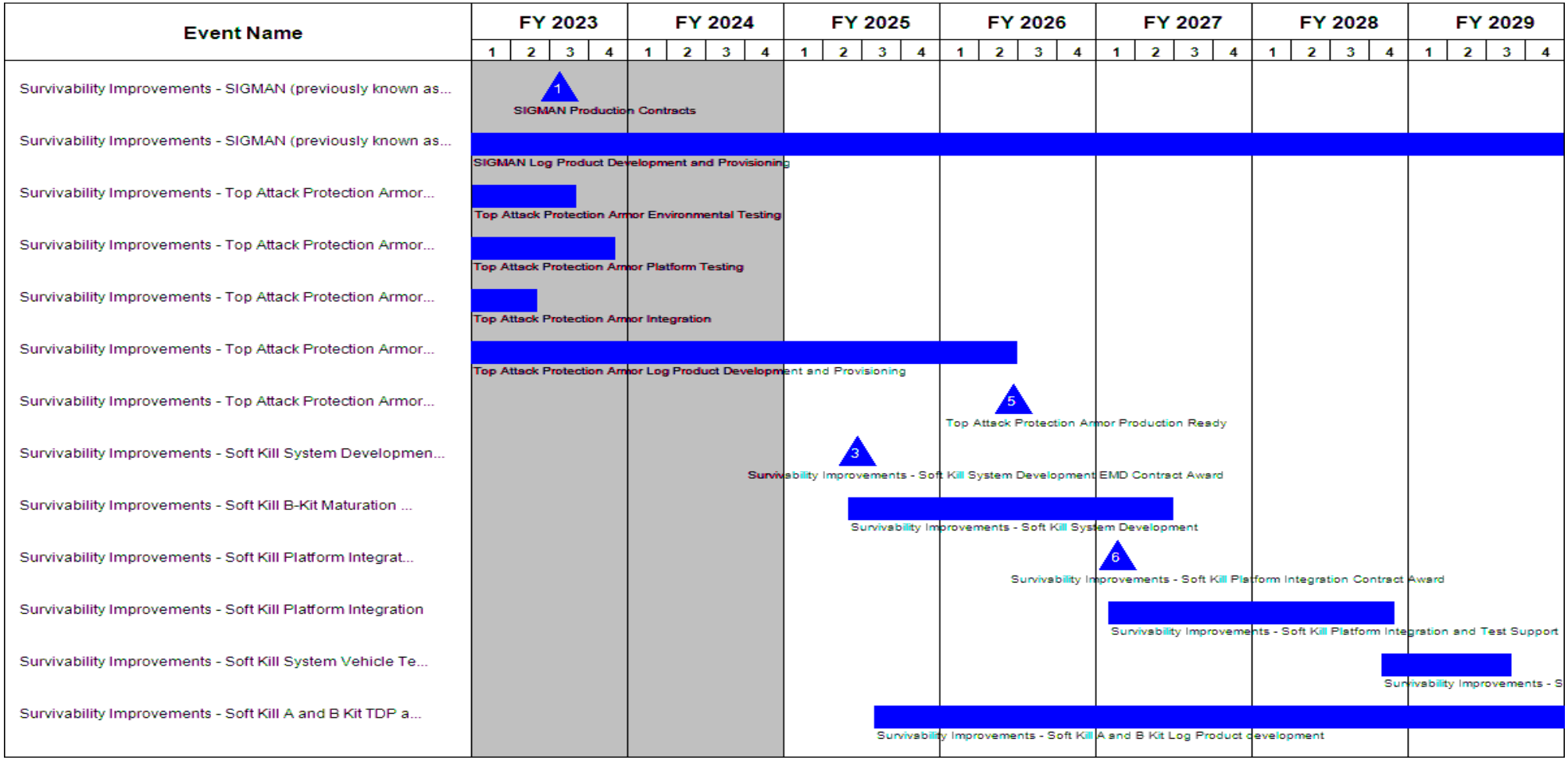
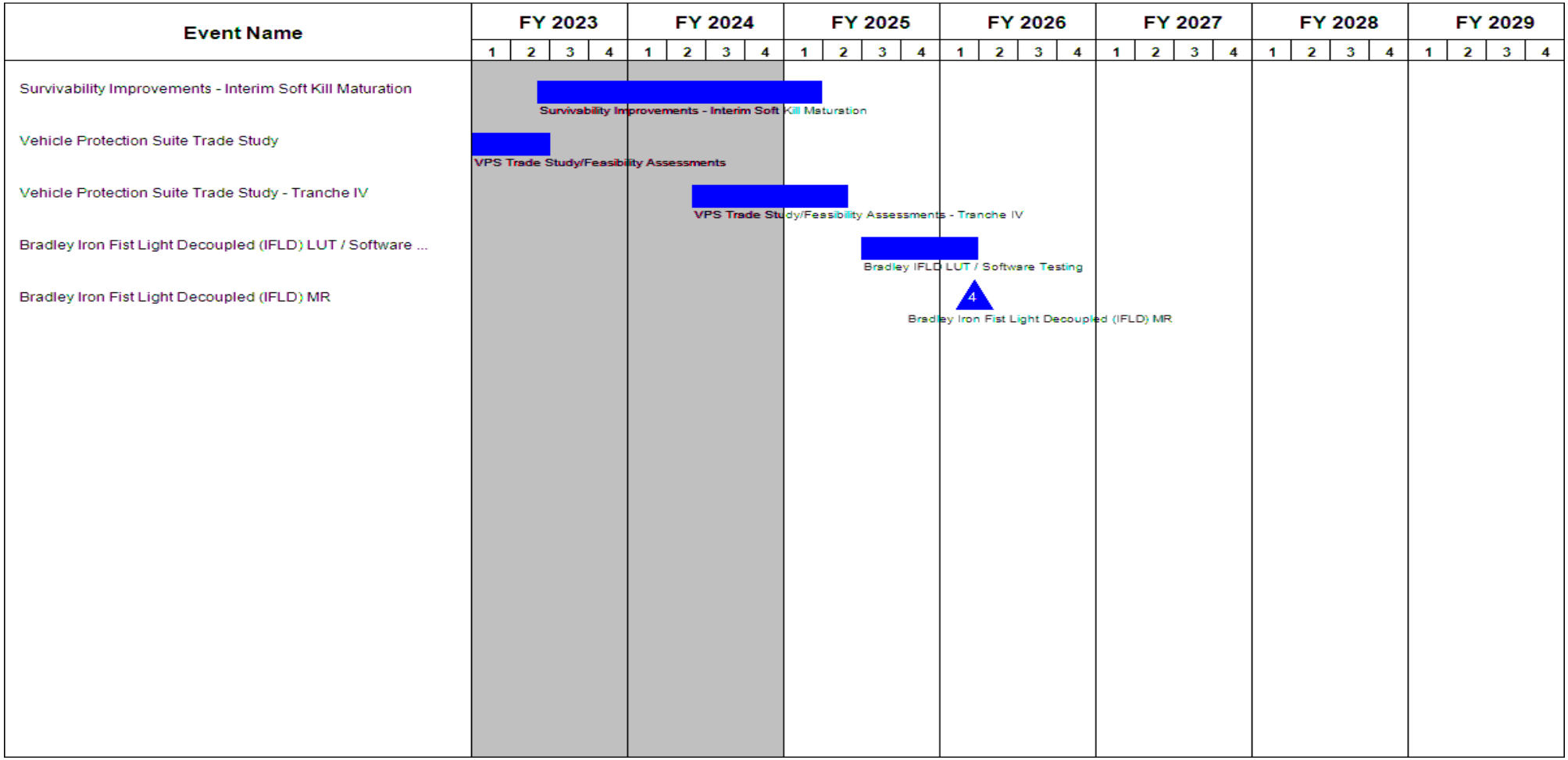


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	**Project (Number/Name)** FE8 / *Vehicle Protection Suite*



Note

n/a

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	**Project (Number/Name)** FE8 / *Vehicle Protection Suite*

Schedule Details

	Start		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	2029
VBK - Component Qualification Testing	1	2020	4	2023
VBK - Integration Design (Abrams, Bradley, AMPV, Stryker and M10 Booker)	1	2021	4	2028
VBK - Competitive Technical Data Package and Logisitic Product Development	4	2021	2	2028
VBK - ATEC Testing (Bradley, Abrams, AMPV, Stryker, M10 Booker)	3	2023	2	2027
VBK - Base Kit Improvements Maturation	2	2022	4	2029
VBK - Procurement Contract Award	1	2024	1	2024
Survivability Improvements Development	1	2020	4	2025
Survivability Improvements - Armor Upgrade Qualification Testing	1	2020	3	2026
Survivability Improvements - Armor Upgrade Logistics Product Development	4	2021	3	2026
Survivability Improvements - Armor Upgrade TDP Development	3	2022	2	2025
Survivability Improvements - SIGMAN (previously known as CCDO) Testing AMPV, M10 Booker, XM30	2	2021	4	2029
Survivability Improvements - SIGMAN (previously known as CCDO) Production Contract Award	3	2023	3	2023
Survivability Improvements - SIGMAN (previously known as CCDO) Log Product Development and Provisioning	4	2021	4	2029
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 TDP and Log Product Development, Validation/Verification and Provisioning	3	2022	2	2026

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604852A / *Suite of Survivability Enhancement Systems - EMD*	**Project (Number/Name)** FE8 / *Vehicle Protection Suite*

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Survivability Improvements - Top Attack Protection Armor Production Ready	2	2026	2	2026
Survivability Improvements - Soft Kill System Development EMD Contract Award	2	2025	2	2025
Survivability Improvements - Soft Kill B-Kit Maturation and Validation	2	2025	2	2027
Survivability Improvements - Soft Kill Platform Integration Contract Award	1	2027	1	2027
Survivability Improvements - Soft Kill Platform Integration	1	2027	4	2028
Survivability Improvements - Soft Kill System Vehicle Testing	4	2028	3	2029
Survivability Improvements - Soft Kill A and B Kit TDP and Log Product development	3	2025	1	2030
Survivability Improvements - Interim Soft Kill Maturation	2	2023	1	2025
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) LUT / Software Testing	3	2025	1	2026
Bradley Iron Fist Light Decoupled (IFLD) MR	1	2026	1	2026

Note

n/a

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0604854A / *Artillery Systems - EMD*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	42.261	42.490	50.495	-	50.495	84.729	81.596	76.787	84.339	Continuing	Continuing
516: *Paladin/FAASV*	-	17.261	42.490	42.479	-	42.479	76.713	73.580	68.771	76.323	Continuing	Continuing
DH7: *Next Generation Howitzer*	-	-	-	8.016	-	8.016	8.016	8.016	8.016	8.016	0.000	40.080
HB6: *Mobile 155MM Howitzer*	-	25.000	-	-	-	-	-	-	-	-	0.000	25.000

Note

Project DH7 / Next Generation Howitzer is a new start within the Artillery Systems - EMD program in FY 2025.

A. Mission Description and Budget Item Justification

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

Project Paladin/FAASV 516 to modernize the Self-Propelled Howitzer and Ammunition Resupply Vehicle Fleet to improve performance and address expected changes in the operational profile. The Self-Propelled Howitzer 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 Self-Propelled Howitzer and Ammunition Resupply Vehicle 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 Self-Propelled Howitzer and Ammunition Resupply Vehicle.

Project DH7 supports the Next Generation Howitzer Program. The Next Generation (NG) Howitzer will provide highly mobile, survivable, versatile, transportable, longer range fire support under a broad set of challenging operational conditions against current and emerging, small to large scale threats through 2040 and beyond. NG Howitzer reduces emplacement and displacement times, provides increased crew survivability and better cross-country mobility, adds overall effectiveness, and affords improved fire support capability for Field Artillery formations well beyond what towed howitzer systems can provide. The NG Howitzer initial characterization establishes a firm foundation for proposed mobile howitzers while allowing for incremental improvements and updates as technologies continue to mature. Future incremental improvements will maintain and enhance performance, lethality, responsiveness, and reliability of our cannon weapon systems across the required spectrum of military operations. NG Howitzer supports Army 2040 and our ability to compete in all domains and allow for freedom of maneuver. Activities will include safety testing, US ammunition compatibility testing, and assessment of mobility, survivability and transportability.

Project HB6 supports the mobile howitzer program. The Mobile 155mm 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

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604854A *I Artillery Systems - EMD*

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 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.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	48.106	42.490	70.518	-	70.518
Current President's Budget	42.261	42.490	50.495	-	50.495
Total Adjustments	-5.845	0.000	-20.023	-	-20.023
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-5.002	-			
• SBIR/STTR Transfer	-0.843	-			
• Adjustments to Budget Years	-	-	-20.023	-	-20.023

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
Project: HB6: *Mobile 155MM Howitzer*		
Congressional Add: *Soft Recoil Development*	25.000	-
Congressional Add Subtotals for Project: HB6	25.000	-
Congressional Add Totals for all Projects	25.000	-

Change Summary Explanation

The decrease in FY25 funding from the previous PB to the current PB reflects the net effect of an FY25 reduction ($28.039 million) which aligns the Paladin/ FAASV project with trade study results which are targeted for completion in the 1st Quarter of FY 2024 and an FY25 increase ($8.016 million) to support the Next Generation Howitzer Program, which focuses on Trade Studies and Analysis and Cannon System Development.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604854A / *Artillery Systems - EMD*	Project (Number/Name) 516 / *Paladin/FAASV*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
516: *Paladin/FAASV*	-	17.261	42.490	42.479	-	42.479	76.713	73.580	68.771	76.323	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Project Paladin/FAASV to modernize the Self-Propelled Howitzer and Ammunition Resupply Vehicle Fleet to improve performance and address expected changes in the operational profile. The Self-Propelled Howitzer 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 Self-Propelled Howitzer and Ammunition Resupply Vehicle 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 Self-Propelled Howitzer and Ammunition Resupply Vehicle.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Program Management ***Description:*** Funding is provided for all Program Management support efforts. ***FY 2024 Plans:*** Develop and manage detailed schedules for modernization activities, execute prototype orders, and begin development, production, and coordination for all required programmatic documents. ***FY 2025 Plans:*** Develop and manage detailed schedules for modernization activities, execute prototype orders, and begin development, production, and coordination for all required programmatic documents. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding decreased from FY 2024 to FY 2025 due to change in acquisition strategy.	3.690	3.733	0.398
Title: Developmental Engineering ***Description:*** Conduct development engineering efforts, perform system usage and optimization studies, perform simulations, develop a proposed system configuration to be matured, material and labor required in support of prototype manufacturing efforts. ***FY 2024 Plans:*** Continue engineering development activities to include studies and design reviews. Place orders for prototype material. ***FY 2025 Plans:***	13.571	38.757	39.763

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604854A / *Artillery Systems - EMD*	**Project (Number/Name)** 516 / *Paladin/FAASV*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Continue engineering development activities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Slight increase from FY 2024 to FY 2025 due to increased development engineering efforts.			
Title: Test and Evaluation ***Description:*** This funding supports all Testing and Evaluation for the Armament Modernization effort. ***FY 2025 Plans:*** Complete test plans and kick off development testing. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** New funding due to testing efforts that begin in FY 2025.	-	-	2.318
Accomplishments/Planned Programs Subtotals	17.261	42.490	42.479

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The Self-Propelled Howitzer 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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604854A / *Artillery Systems - EMD*	Project (Number/Name) 516 / *Paladin/FAASV*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SEPM Government	MIPR	Various : Various	-	1.826	Dec 2022	1.848	Dec 2023	0.398	Dec 2024	-		0.398	0.000	4.072	-
SEPM Contractor	TBD	Various : Various	-	1.864	Mar 2023	1.885	Mar 2024	-		-		-	0.000	3.749	-
		Subtotal	-	3.690		3.733		0.398		-		0.398	0.000	7.821	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Engineering	TBD	TBD : TBD	-	12.014	Mar 2023	18.295	Mar 2024	39.763	Mar 2025	-		39.763	0.000	70.072	-
Production, Engineering, Planning	TBD	TBD : TBD	-	0.499	Mar 2023	0.501	Mar 2024	-		-		-	0.000	1.000	-
Development Tooling	TBD	TBD : TBD	-	0.006	Mar 2023	0.006	Mar 2024	-		-		-	0.000	0.012	-
Prototype Manufacturing	TBD	TBD : TBD	-	-		17.332	Mar 2024	-		-		-	0.000	17.332	-
		Subtotal	-	12.519		36.134		39.763		-		39.763	0.000	88.416	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Data	TBD	TBD : TBD	-	0.918	Mar 2023	1.058	Mar 2024	-		-		-	0.000	1.976	-
Support Equipment	TBD	TBD : TBD	-	0.134	Mar 2023	0.134	Mar 2024	-		-		-	0.000	0.268	-
Other	TBD	TBD : TBD	-	-		1.431	Mar 2024	-		-		-	0.000	1.431	-
		Subtotal	-	1.052		2.623		-		-		-	0.000	3.675	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	TBD	TBD : TBD	-	-		-		2.318	Mar 2025	-		2.318	0.000	2.318	-
		Subtotal	-	-		-		2.318		-		2.318	0.000	2.318	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604854A / *Artillery Systems - EMD*	Project (Number/Name) 516 / *Paladin/FAASV*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	17.261		42.490		42.479		-		42.479	0.000	102.230	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604854A / *Artillery Systems - EMD*	**Project (Number/Name)** 516 / *Paladin/FAASV*

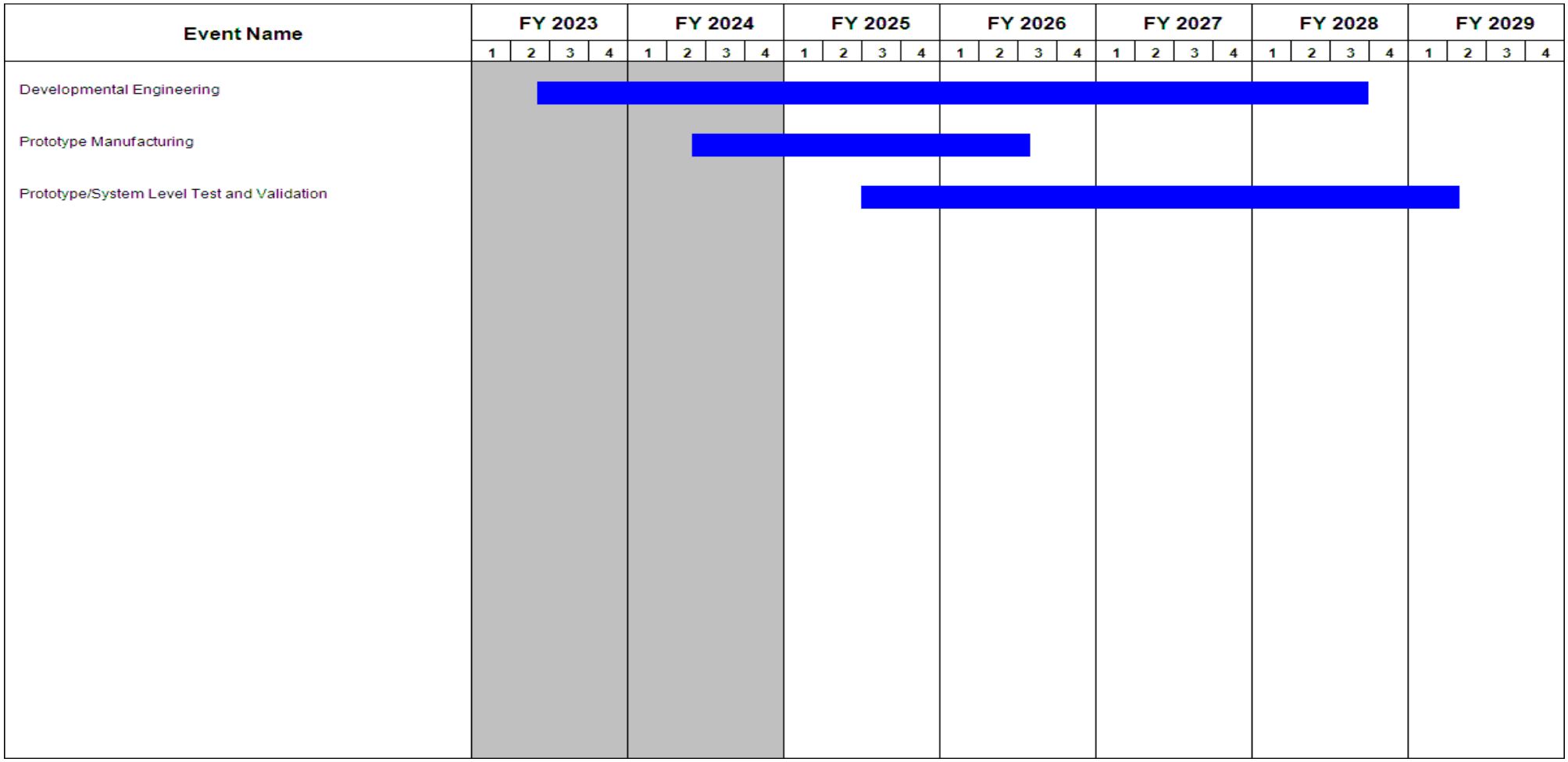


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604854A / *Artillery Systems - EMD*	**Project (Number/Name)** 516 / *Paladin/FAASV*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Developmental Engineering	2	2023	3	2028
Prototype Manufacturing	2	2024	3	2026
Prototype/System Level Test and Validation	3	2025	2	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604854A / *Artillery Systems - EMD*	Project (Number/Name) DH7 / *Next Generation Howitzer*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DH7: *Next Generation Howitzer*	-	-	-	8.016	-	8.016	8.016	8.016	8.016	8.016	0.000	40.080
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Next Generation Howitzer is a new start within the Artillery Systems - EMD program in FY 2025.

A. Mission Description and Budget Item Justification

Project DH7 supports the Next Generation Howitzer Program. The Next Generation (NG) Howitzer will provide highly mobile, survivable, versatile, transportable, longer range fire support under a broad set of challenging operational conditions against current and emerging, small to large scale threats through 2040 and beyond. NG Howitzer reduces emplacement and displacement times, provides increased crew survivability and better cross-country mobility, adds overall effectiveness, and affords improved fire support capability for Field Artillery formations well beyond what towed howitzer systems can provide. The NG Howitzer initial characterization establishes a firm foundation for proposed mobile howitzers while allowing for incremental improvements and updates as technologies continue to mature. Future incremental improvements will maintain and enhance performance, lethality, responsiveness, and reliability of our cannon weapon systems across the required spectrum of military operations. NG Howitzer supports Army 2040 and our ability to compete in all domains and allow for freedom of maneuver. Activities will include safety testing, US ammunition compatibility testing, and assessment of mobility, survivability and transportability.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Trade Studies and Analysis ***FY 2025 Plans:*** Funding supports evaluations of existing capabilities versus attributes such as improved emplacement and displacement times, driving speed, US ammunition compatibility, and crew protection capabilities, all without sacrificing lethality versus existing and future howitzer systems. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** DH7 is a new start for FY 2025.	-	-	4.000
Title: Cannon System Development ***FY 2025 Plans:*** Funds support the development of the next generation cannon system to integrate into the NG Howitzer. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** DH7 is a new start for FY 2025.	-	-	4.016
Accomplishments/Planned Programs Subtotals	-	-	8.016

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604854A / *Artillery Systems - EMD*	**Project (Number/Name)** DH7 / *Next Generation Howitzer*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The acquisition strategy for the NG Howitzer program is to evaluate existing industry prototypes and fielded systems and assess capability of mobility and survivability attributes, utilizing US ammunition capability.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604854A / *Artillery Systems - EMD*	Project (Number/Name) DH7 / *Next Generation Howitzer*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Cannon Development	MIPR	US Army Combat Capabilities Development Command Armament Center : Watervliet Arsenal, NY	-	-		-		4.000	Dec 2024	-		4.000	Continuing	Continuing	-
		Subtotal	-	-		-		4.000		-		4.000	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Trade Studies and Analysis	TBD	Program Manager Towed Artillery Systems : Picatinny Arsenal, NJ	-	-		-		4.016	Nov 2024	-		4.016	Continuing	Continuing	-
		Subtotal	-	-		-		4.016		-		4.016	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		8.016		-		8.016	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604854A / *Artillery Systems - EMD*	**Project (Number/Name)** DH7 / *Next Generation Howitzer*

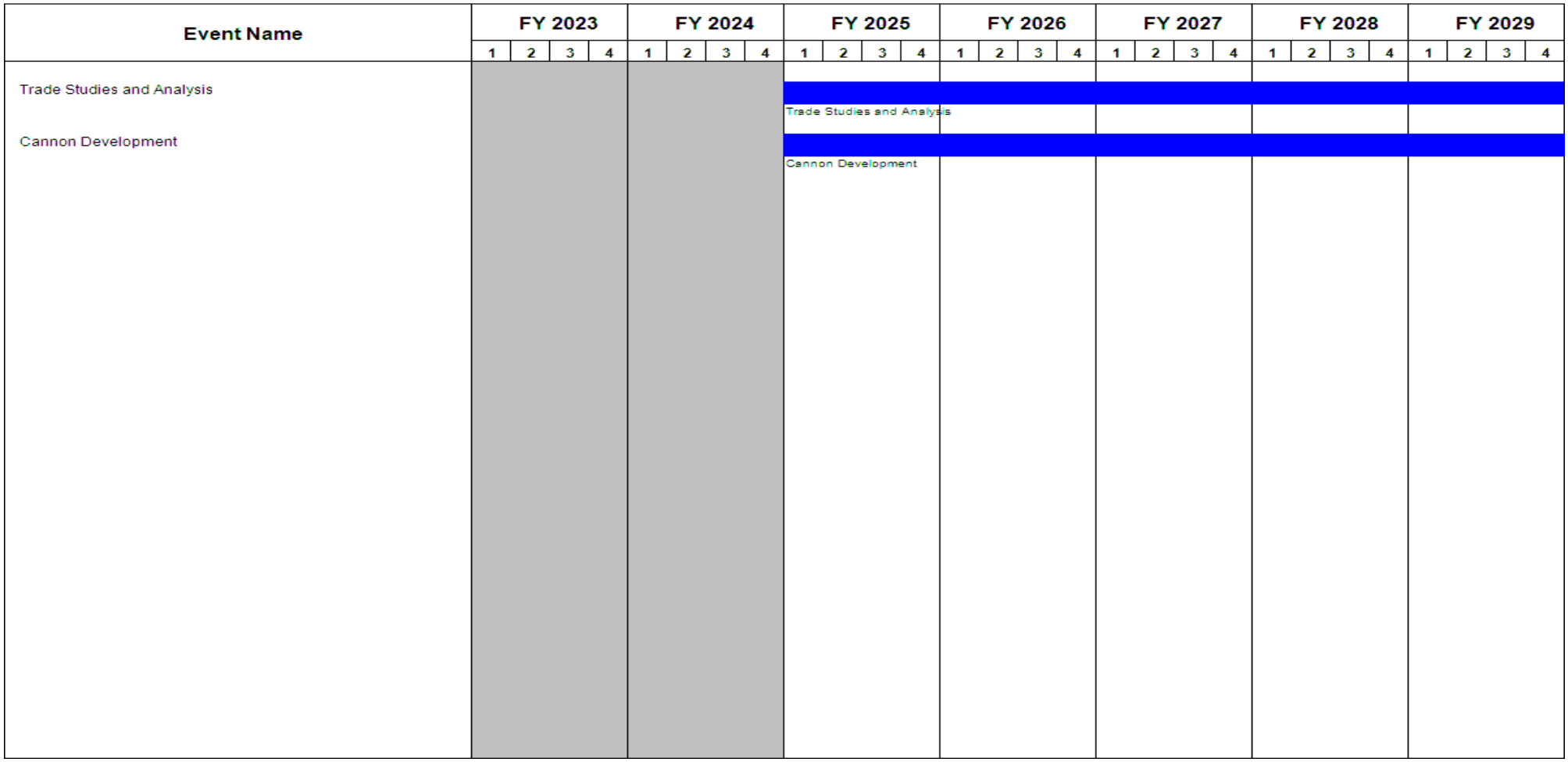


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604854A / *Artillery Systems - EMD*	**Project (Number/Name)** DH7 / *Next Generation Howitzer*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Trade Studies and Analysis	1	2025	4	2029
Cannon Development	1	2025	1	2030

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604854A / *Artillery Systems - EMD*	Project (Number/Name) HB6 / *Mobile 155MM Howitzer*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
HB6: *Mobile 155MM Howitzer*	-	25.000	-	-	-	-	-	-	-	-	0.000	25.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 2023	FY 2024
Congressional Add: Soft Recoil Development	25.000	-
FY 2023 Accomplishments: 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	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

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 Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604854A / *Artillery Systems - EMD*	Project (Number/Name) HB6 / *Mobile 155MM Howitzer*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Soft Recoil Development	TBD	PM Towed Artillery Systems : Picatinny Arsenal, NJ	50.000	25.000	Aug 2023	-		-		-		-	0.000	75.000	-
		Subtotal	50.000	25.000		-		-		-		-	0.000	75.000	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	50.000	25.000		-		-		-		-	0.000	75.000	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604854A / *Artillery Systems - EMD*	**Project (Number/Name)** HB6 / *Mobile 155MM Howitzer*

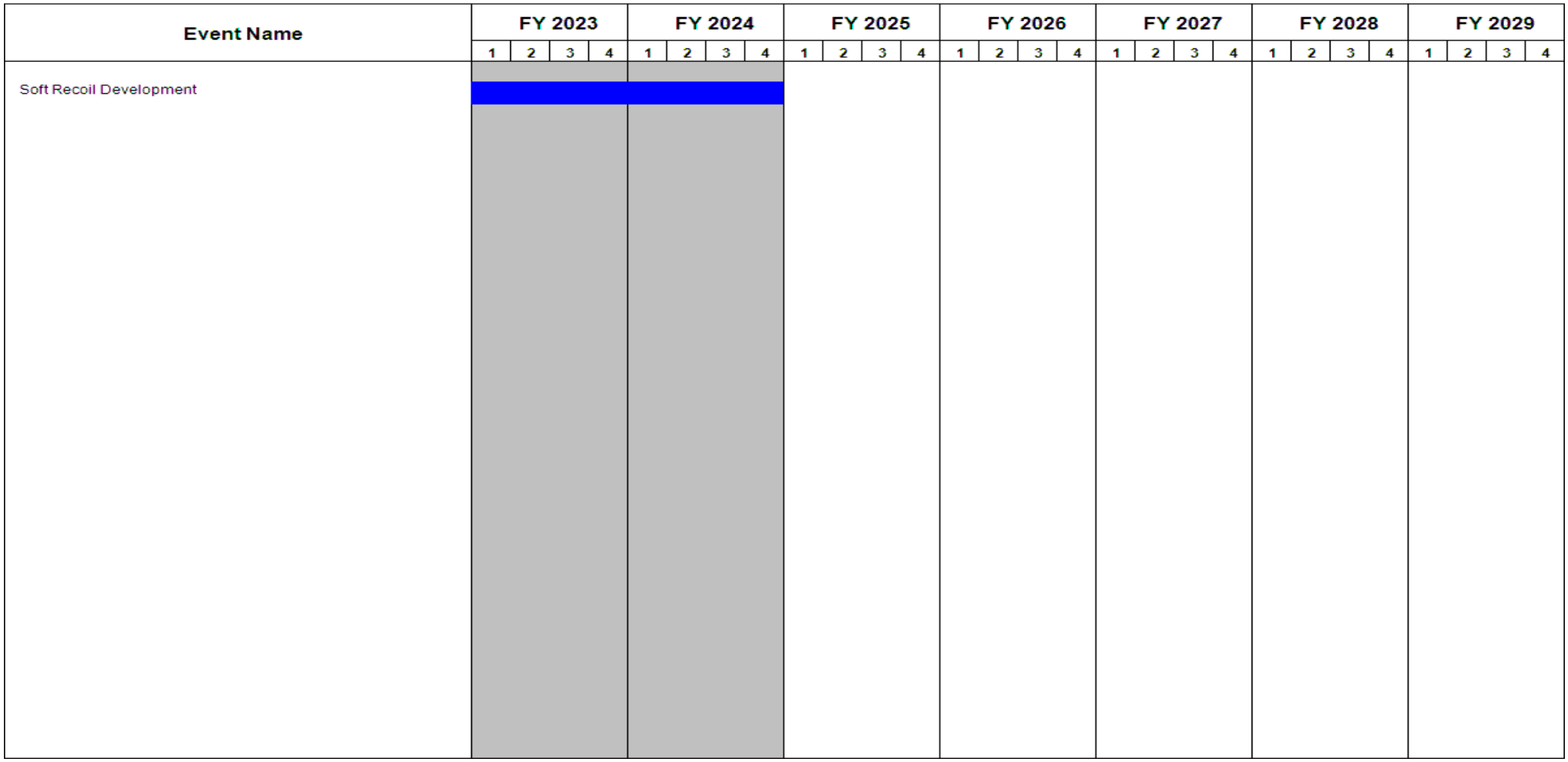


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604854A / *Artillery Systems - EMD*	**Project (Number/Name)** HB6 / *Mobile 155MM Howitzer*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Mobile Howitzer Analysis	1	2020	3	2020
Testing and Engineering Support	3	2020	4	2021
Bid Sample Test	3	2021	4	2021
105MM Mobile Howitzer System Evaluation	2	2021	4	2021
Soft Recoil Development	2	2021	4	2024

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	85.713	104.024	120.076	-	120.076	107.266	102.421	100.545	90.330	Continuing	Continuing
099: *Army Human Resource System*	-	14.580	5.680	3.235	-	3.235	2.722	2.484	1.957	1.996	0.000	32.654
184: *Installation Support Modules*	-	1.276	-	0.667	-	0.667	0.631	0.586	0.571	0.586	0.000	4.317
BY3: *Information Systems for Installations*	-	0.985	1.024	2.475	-	2.475	1.915	2.094	2.665	2.666	0.000	13.824
DH1: *Operational Medicine Information System*	-	-	4.241	6.829	-	6.829	3.202	8.808	2.331	2.340	0.000	27.751
DH2: *ATMS Modernization**	-	-	-	-	-	-	0.599	-	-	-	0.000	0.599
FL9: *Army Accessioning IT Development*	-	2.443	2.288	2.151	-	2.151	2.151	2.151	2.151	2.151	0.000	15.486
FM7: *Human Resouces Information Technology*	-	11.152	11.449	7.086	-	7.086	7.263	7.512	6.973	6.982	Continuing	Continuing
FM8: *Information Technology for Training Systems*	-	26.496	5.993	11.560	-	11.560	1.560	1.587	1.603	1.619	0.000	50.418
FM9: *Information Technology for Criminal Investigations*	-	1.227	2.697	3.139	-	3.139	3.103	3.168	3.233	3.298	0.000	19.865
T04: *USMEPCOM TRANSFORMTION - IT MODERNIZATION*	-	2.140	2.239	2.258	-	2.258	6.129	2.924	2.498	2.498	0.000	20.686
T05: *Army Business System Modernization Initiatives*	-	22.195	65.143	77.506	-	77.506	74.789	67.873	73.265	62.822	0.000	443.593
VR3: *ASMIS-R (REPORTIT)*	-	3.219	3.270	3.170	-	3.170	3.202	3.234	3.298	3.372	0.000	22.765

*This project's R-2a exhibit has been suppressed due to funding not beginning until after FY 2025

A. Mission Description and Budget Item Justification

This Program Element is made up of over 23 programs across 12 Projects that represent numerous Army Information Technology missions.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	104.134	104.024	54.883	-	54.883
Current President's Budget	85.713	104.024	120.076	-	120.076
Total Adjustments	-18.421	0.000	65.193	-	65.193
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-14.614	-			
• SBIR/STTR Transfer	-3.807	-			
• Adjustments to Budget Years	-	-	65.193	-	65.193

Change Summary Explanation

Increased funding due to ramp up and acceleration of development efforts across various projects within the Information Technology Development Program Element, including Army Business System Modernization Initiatives.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) 099 / *Army Human Resource System*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
099: *Army Human Resource System*	-	14.580	5.680	3.235	-	3.235	2.722	2.484	1.957	1.996	0.000	32.654
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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

1. ArmyIgnitED: In support of recruiting and retention for a more educated workforce, ArmyIgnitED 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. ArmyIgnitED 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 292K Soldiers, Cadets and Civilians. ArmyIgnitED 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. ArmyIgnitED is hosted in the Air Force's Amazon Web Services (AWS) GovCloud until migration to an Army Cloud environment is decided, funded, and implemented.

FY 2025 Base dollars in the amount of $2.930 million will support remaining enhancements during the Continuous Integration/Continuous Delivery (CI/CD) phase. FY 2025 planned capability enhancements include: Features such as enhanced recoupments, metrics reporting, and Interfacing with systems such as the Army Career Tracker (ACT), Defense Civilian Personnel Data System (DCPDS), Joint Service Transcript (JST), Accessions Information Environment (AIE), the Integrated Personnel and Pay System - Army (IPPS-A), and the Defense Activity Non-Traditional Education Support (DANTES) OSD Rates being integrated into ArmyIgnitED.

2. Regional Level Application Software (RLAS): RLAS is the United States Army Reserve Command (USARC) developed web-based application designed to assist Army Reserve Unit Commanders in accomplishment of critical day to day administrative tasks that support data information flow throughout all echelons Command levels within the Army Reserve. As the Army Reserve is geographically dispersed, RLAS efficiently leverages technology and remote execution of the following tasks: (1) Processes personnel actions to update USARC's official personnel database of record and maintain functionality of personnel actions not subsumed by IPPS-A; (2) Initiate, process, approve, publish and distribute Soldier Active Duty (AD) orders for Annual Training (AT), Active Duty Training (ADT), Active Duty Training School (ADTS), and Active Duty Orders Special Army Reserve (ADOS-RC); (3) Distribute, control, and execute Reserve Personnel Army (RPA) Appropriation for Request for Orders and Additional Drill Assembly processing; (4) Automated preparation and submission of Army Reserve Soldier AD Orders and Inactive Duty Training (IDT) payment requests; (5) Automated preparation and maintenance of Army Reserve Unit training schedules; and (6) Maintains reporting capabilities of critical personnel

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 099 / *Army Human Resource System*

and resource management data for Army Reserve Commanders, USARC Staff, and Command echelons above and throughout USARC. RLAS is a Legacy Information System that operates as a Financial Feeder System to General Fund Enterprise Business Solution (GFEBS) official Accounting System of record.

FY 2025 Base dollars in the amount of $0.305 million will support RLAS day to day enterprise requirements and Army Reserve Component (RC) Soldier military pay transactions which differs from Active Component (AC). Required funding supports three RLAS Modules: Training, Personnel, and Resource Management (supports Military Pay processing for IDT, AT, ADT, ADTS, ADOS-RC). The Personnel Module is required to maintain the functionality between IPPS-A and RLAS, as there are Personnel actions that are still processed within RLAS. RDT&E provides RLAS with investment funds necessary for system development and/or modifications which support Service mandates (i.e., Cloud migration). In FY 2025, the required RDT&E funding required decreases slightly due to projected completion date, deployment, and transition of Modernized RLAS (mRLAS) projected for FY 2024, at which time minor modifications will be required. RLAS System development includes: (1) IPPS-A interface requirements; (2) Implementing Operating Systems (OS), system utilities, and other technological products; (3) Modification enhancement of RLAS capabilities and modifications that support RLAS compliancy with Army Cyber Command and Audit requirements.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: ArmyIgnitED	13.979	5.123	2.930

Description: ArmyIgnitED is an IT financial management portal and decision support tool for Soldiers, Cadets, and Civilians to request Tuition Assistance (TA) and Credentialing Assistance (CA), Cadets to request Scholarship payments, and Army Civilians to request training funds online, anytime, for classroom, distance learning, and college courses. When fully deployed, ArmyIgnitED will be used by approximately 500,000 end users at both Continental United States (CONUS) and Outside the CONUS (OCONUS) locations. It will be the Army's single, next-generation, enterprise-wide TA, CA, and reimbursement management software system. The legacy system has been decommissioned. In support of recruiting and retention for a more educated workforce, ArmyIgnitED is the virtual financial management portal and decision-support tool for 1) Active Duty (AD), US Army Reserves (USAR), and Army National Guard (ARNG) Soldiers to request TA; 2) Cadets to request Scholarship payments and 3) Department of the Army (DA) Civilians and Apprentices to request professional development funds. ArmyIgnitED is hosted as an application on the Air Force (AF) Automated Education Management System (AFAEMS) Government Off the Shelf (GOTS) solution. Development maximizes re-configuration of the Air Force Voluntary Education platform, AFAEMS, to the greatest extent possible and performing only minimal necessary modifications to ensure implementation of Army laws, policies, regulations, and directives (LPRDs).

FY 2024 Plans:
Following the planned MVPs, ArmyIgnitED will enter a Capability Support phase. During this time, some additional capabilities will be added, and enhancements will occur as more interfaces, business processes, and features are automated. The Agile methodology and CI/CD implementation approach will continue for both maintenance and enhancements. ArmyIgnitED will be frequently updated in rapid fashion and responsive to emerging needs, to include adding / updating functionality as requirements evolve due to ever-changing Laws, Policies, Regulations, and Directives, business process reengineering, efficiency reviews, new capabilities identified given emerging mission needs and technology advancements that offer business process efficiencies, and

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 099 / *Army Human Resource System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Army Enterprise modernization. Capability enhancements are defined as functionalities that have been identified but will have to be developed and tested in the future. Capability enhancements are defined as functionalities that have been identified but will have to be developed and tested in the future. Such capabilities include but are not limited to the additional interfaces; Army Career Tracker (ACT); Defense Civilian Personnel Data System (DCPDS), Joint Service Transcript (JST), Accessions Information Environment (AIE) and the Defense Activity Non-Traditional Education Support (DANTES) OSD Rates being integrated into ArmyIgnitED. The Capability Enhancements will benefit specific functional users such as developing the FY Funding dashboard which will support TA and CA and also enhancements which will benefit all functional users of the system such as the update to Help Desk capabilities. Residual data migration may also be necessary. ***FY 2025 Plans:*** FY 2025 will support the Continuous Integration / Continuous Delivery (CI/CD) phase. The Agile development methodology and CI/CD process will continue for enhancements to ensure ArmyIgnitED is frequently updated in response to emerging needs, to include adding / updating functionality as requirements evolve due to ever-changing Laws, Policies, Regulations, and Directives, and more Army Enterprise operations are integrated. FY 2025 planned capability enhancements include: Army Career Tracker (ACT); Defense Civilian Personnel Data System (DCPDS), Joint Service Transcript (JST), Accessions Information Environment (AIE), The Integrated Personnel and Pay System - Army (IPPS-A), and the Defense Activity Non-Traditional Education Support (DANTES) OSD Rates being integrated into ArmyIgnitED. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 decreases $2.193 million due to the planned completion of MVPs in FY 2023 and the transition to Agile CI/CD. FY 2025 funds will support remaining enhancements during the CI/CD phase. The remaining funds are needed to develop interfaces, and the continued automation of business processes.			
Title: Regional Level Application Software (RLAS) ***Description:*** 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 three modules: Training, Personnel, and Resource Management. R&D authority and 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) Integrated Pay and Personnel System - Army (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 will improve RLAS system capabilities and bring RLAS into compliance with various Army Cyber Command (ARCYBER) and audit readiness requirements.	0.601	0.557	0.305

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 099 / *Army Human Resource System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: - Enhancement of Cloud sustainment - Implementation and interface solutions for IPPS-A/RLAS - Maintain RLAS Legacy Application - Further develop audit standards for RLAS Application access and segregation of duties ***FY 2025 Plans:*** Integrated Personnel Pay System - Army (IPPS-A) release for Personnel did not fully subsume Legacy RLAS for Personnel requirements. Legacy RLAS will maintain these personnel components within the Personnel Module of RLAS to support until such time it is subsumed by IPPS-A. RLAS still maintains Resource Management modules and Training Module in support of RLAS Order Writer processing Annual Training (AT), School, and Active Duty Operational Support - Reserve Component (ADOS-RC) for Active Duty Orders; and Inactive Duty Training (Battle Assembly and Additional Drill Assembly types) for Army Reserve Soldiers. RLAS also provides support to USARC G8 Pay Management Division (PMD) to support Military Pay processing with system interfacing between Defense Joint Military Pay System - Reserve Component and RLAS for Reserve Component Troop Program Unit members. The delay in IPPS-A release of Personnel in November of 2022 shifted funding requirements to maintain the Legacy RLAS as a Financial Feeder System. FY 2025 Base funds will support increased functionality and interface solutions between RLAS and Integrated Personnel Pay System - Army (IPPS-A). Required modification to RLAS Legacy Application to Modernized RLAS (mRLAS) required for Cloud and/or System Interfaces. Improvement of Audit standards for RLAS Application Access and Segregation of Duties (SOD) and provide Cloud enhancement for RLAS after migration in fourth quarter FY 2024. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decreases $0.252 million due to the anticipated completion of Modernized RLAS (mRLAS) in FY 2024, which requires FY 2025 funding to support residual enhancements or major capabilities development identified during transition to IPPS-A.			
Accomplishments/Planned Programs Subtotals	14.580	5.680	3.235

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OMA - ArmyIgnitED: *ArmyIgnitED CI/CD Phase and Hosting*	12.416	16.161	12.343	-	12.343	13.196	13.735	11.457	11.747	Continuing	Continuing

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 099 / *Army Human Resource System*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OTH - RLAS (Legacy): *RLAS (Legacy) Sustainment and Maintenance*	2.300	-	0.627	-	0.627	0.853	0.500	0.500	0.500	0.000	5.280

Remarks

RLAS (Legacy): OA24, OMAR Appropriation, SAG 432.

D. Acquisition Strategy

ArmyIgnitED is the Army's instantiation of an existing, mature, Air Force Government off the shelf (GOTS) solution, Air Force Automated Education Management System (AFAEMS), that will be updated to ensure (1) compliance with Army LPRDs, and (2) data exchange with Army system partners, to provide TA and CA management functionality for use by Army Soldiers, Cadets, and Civilians. The Program Manager makes extensive use of Integrated Product Teams (IPTs). Sub-elements of the acquisition (engineering and design, logistics planning, testing, etc.) are intensively managed by integrated teams of government and contractor personnel. Task performance is tracked against the Work Breakdown Structure (WBS) and resources allocated to each task are adjusted based on performance against the WBS.

Some additional ArmyIgnitED capabilities will be added and enhancements will occur as more interfaces, business processes, and features are automated. The Agile development methodology and CI/CD process will continue for both maintenance and enhancements to ensure ArmyIgnitED is frequently updated in response to emerging needs, to include adding / updating functionality as requirements evolve due to ever-changing, and more Army Enterprise operations are integrated. Residual data migration may also be necessary. The overarching acquisition strategy is to deliver incremental capabilities; developed and delivered through a series of MVPs prioritized to overcome legacy system deficiencies which caused significant payment issues and loss of capability to Soldiers, Civilians, and Cadets. ArmyIgnitED will extend the current Air Force Task Order and then transition to an Army Contracting Command (ACC) managed, two-year, hybrid Firm Fixed Price & Time and Materials software support and development contract through July 2025.

RLAS - Will utilize General Services Administration (GSA) contract support to solicit FY 2024-2026 three-year software support & development contract - hybrid Firm Fixed Price & Time and Materials.

RLAS will utilize existing USAR G6 hardware I servers/ virtual environment/ Active Directory/ level 1-2 help desk/ utility software/ OS/ DB/ and other necessary hardware and devices as needed to operate the RLAS system.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 099 / *Army Human Resource System*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
AHRS - ECPs/SCPs/ICPs/ RLAS	C/FFP	Hewlitt Packard : various	90.719	0.601	Nov 2022	0.555		0.305		-		0.305	Continuing	Continuing	-
Army IgnitED	C/FFP	BAM Technologies : Arlington, VA 22202	17.800	13.979	Jul 2023	5.125		2.930		-		2.930	Continuing	Continuing	-
		Subtotal	108.519	14.580		5.680		3.235		-		3.235	Continuing	Continuing	N/A

Remarks

ArmyIgnitED - The Program Manager is utilizing an existing contract for development; and an existing SETA contract for PMO acquisition, systems engineering, business process re- engineering, and cybersecurity support services. A follow-on contract for Capability Support was awarded in late FY 2023 The program will leverage the Air Force follow-on contract for the GOTS solution being adopted by the Army. Program management functions are being funded with OMA.

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	108.519	14.580		5.680		3.235		-		3.235	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 099 / *Army Human Resource System*

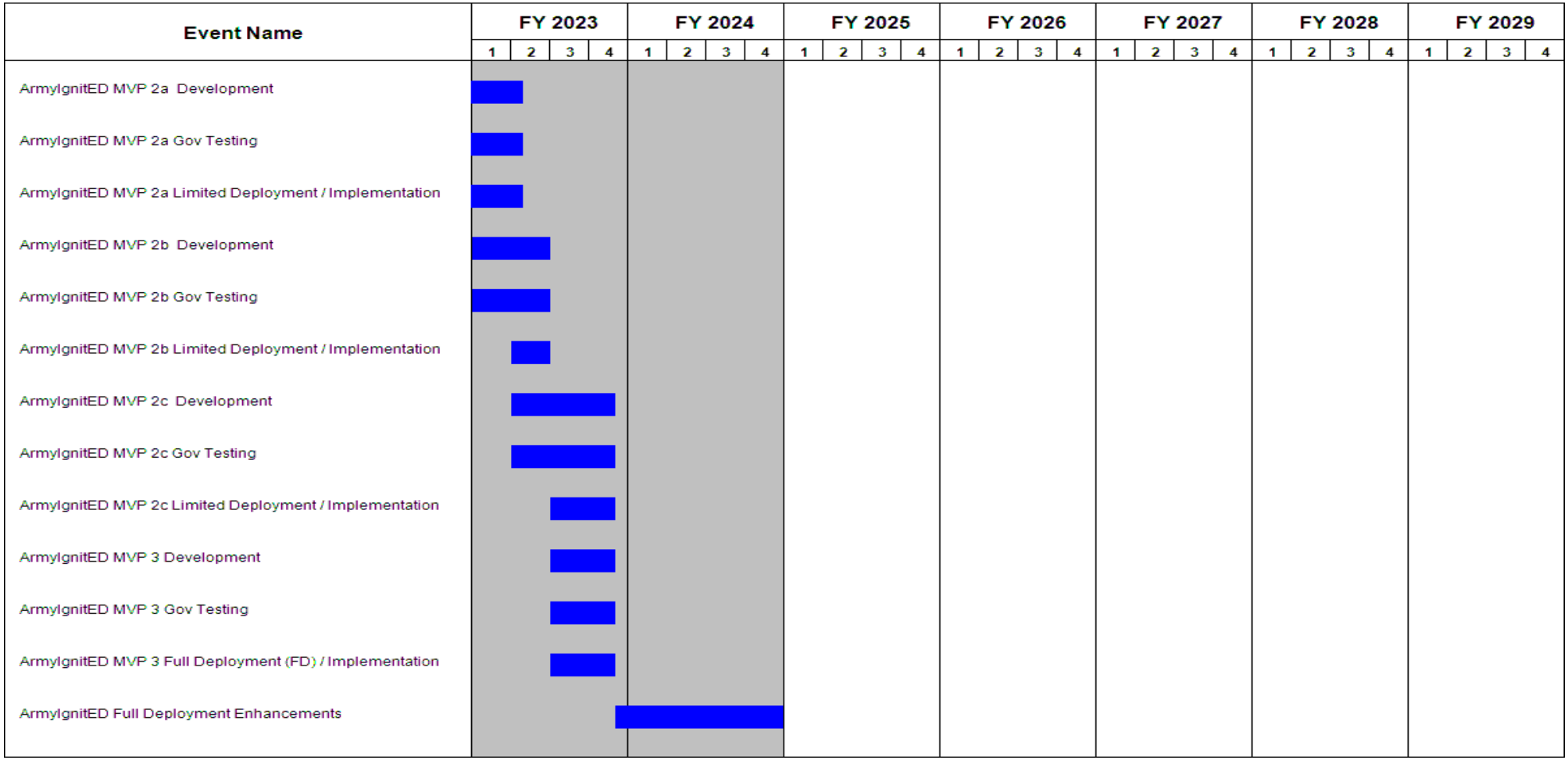


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 099 / *Army Human Resource System*

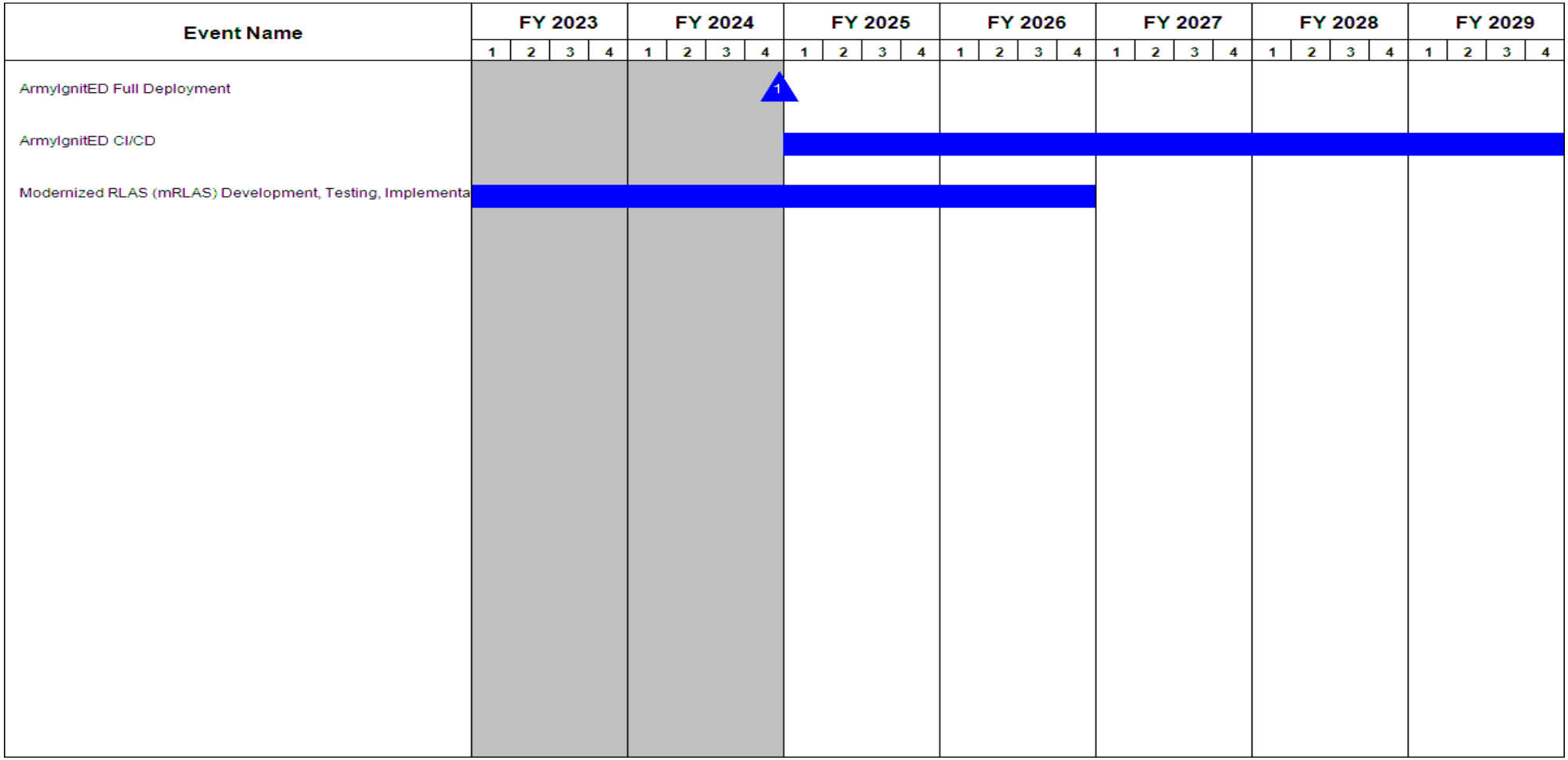


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 099 / *Army Human Resource System*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
ArmyIgnitED MVP 1 Development	3	2022	3	2022
ArmyIgnitED MVP 1 Gov Testing	3	2022	4	2022
ArmyIgnitED MVP 1 Limited Deployment (LD)/Implementation	4	2022	4	2022
ArmyIgnitED MVP 2a Development	4	2022	1	2023
ArmyIgnitED MVP 2a Gov Testing	4	2022	1	2023
ArmyIgnitED MVP 2a Limited Deployment / Implementation	1	2023	1	2023
ArmyIgnitED MVP 2b Development	1	2023	2	2023
ArmyIgnitED MVP 2b Gov Testing	1	2023	2	2023
ArmyIgnitED MVP 2b Limited Deployment / Implementation	2	2023	2	2023
ArmyIgnitED MVP 2c Development	2	2023	4	2023
ArmyIgnitED MVP 2c Gov Testing	2	2023	4	2023
ArmyIgnitED MVP 2c Limited Deployment / Implementation	3	2023	4	2023
ArmyIgnitED MVP 3 Development	3	2023	4	2023
ArmyIgnitED MVP 3 Gov Testing	3	2023	4	2023
ArmyIgnitED MVP 3 Full Deployment (FD) / Implementation	3	2023	4	2023
ArmyIgnitED Full Deployment Enhancements	4	2023	4	2024
ArmyIgnitED Full Deployment	4	2024	4	2024
ArmyIgnitED CI/CD	1	2025	4	2029
Modernized RLAS (mRLAS) Development, Testing, Implementation, Deployment	1	2023	4	2026

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) 184 / *Installation Support Modules*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
184: *Installation Support Modules*	-	1.276	-	0.667	-	0.667	0.631	0.586	0.571	0.586	0.000	4.317
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. CIAV provides an enduring and agile capability to execute approved processes. The project provides 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. It also enables 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, MPE Information Sharing Capability Implementation for the DOD.

FY 2025 Base dollars in the amount of $0.667 million will fund interoperability assessment and capabilities to identify and resolve process, training, and technical gaps for coalition/multinational Mission Based Interoperability (MBI) supporting US commanders in the field.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Army Behavioral Health Integrated Data Environment	1.276	-	0.667
Description: Army Behavioral Health Integrated Data Environment (ABHIDE) will be the U.S. Army Center for Health Promotion and Preventive Medicine (CHPPM) Suicide Registry. The Coalition Interoperability Assurance and Validation Enclave (CIAV-E) conducts end-to end analysis of mission-based interoperability effectiveness of operational coalition mission threads through validated operational and technical requirements.			
FY 2025 Plans: Conduct end-to-end analysis of mission-based interoperability effectiveness of the operational objective through validated operational and technical requirements. Federated Mission Networking (FMN) Mission Services are the end-to-end sets of activities and data required to successfully execute an element of an operational mission, such as battlespace management and joint fire support. Provide Coalition Interoperability Assessment and Validation (CIAV) theater on-site interoperability testing.			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 184 / *Installation Support Modules*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Provide annual Common Mission Network Transport (CMNT) Transport Fee for coalition information sharing via the Coalition Verification and Validation Environment; provide Annual Central Technical Support Facility (CTSF) Tenant Fee for lease of space to support CIAV Lab operations. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increase provides various Combatant Commanders support in the area of Coalition interoperability and exercises. CIAV has become a persistent, enduring capability to improve interoperability in the MPE and NATO FMN environment.			
Accomplishments/Planned Programs Subtotals	1.276	-	0.667

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The present concept uses contracts for the procurement of various network and server equipment.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) 184 / *Installation Support Modules*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Independent Verification and Validation (IVV) Testing	C/FFP	ZIVARO, INC., DELL FEDERAL SYSTEMS L.P., ID TECHNOLOGIES, LLC : various	12.611	1.276	Aug 2023	-		0.667	Aug 2025	-		0.667	0.000	14.554	-
		Subtotal	12.611	1.276		-		0.667		-		0.667	0.000	14.554	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	12.611	1.276		-		0.667		-		0.667	0.000	14.554	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 184 / *Installation Support Modules*

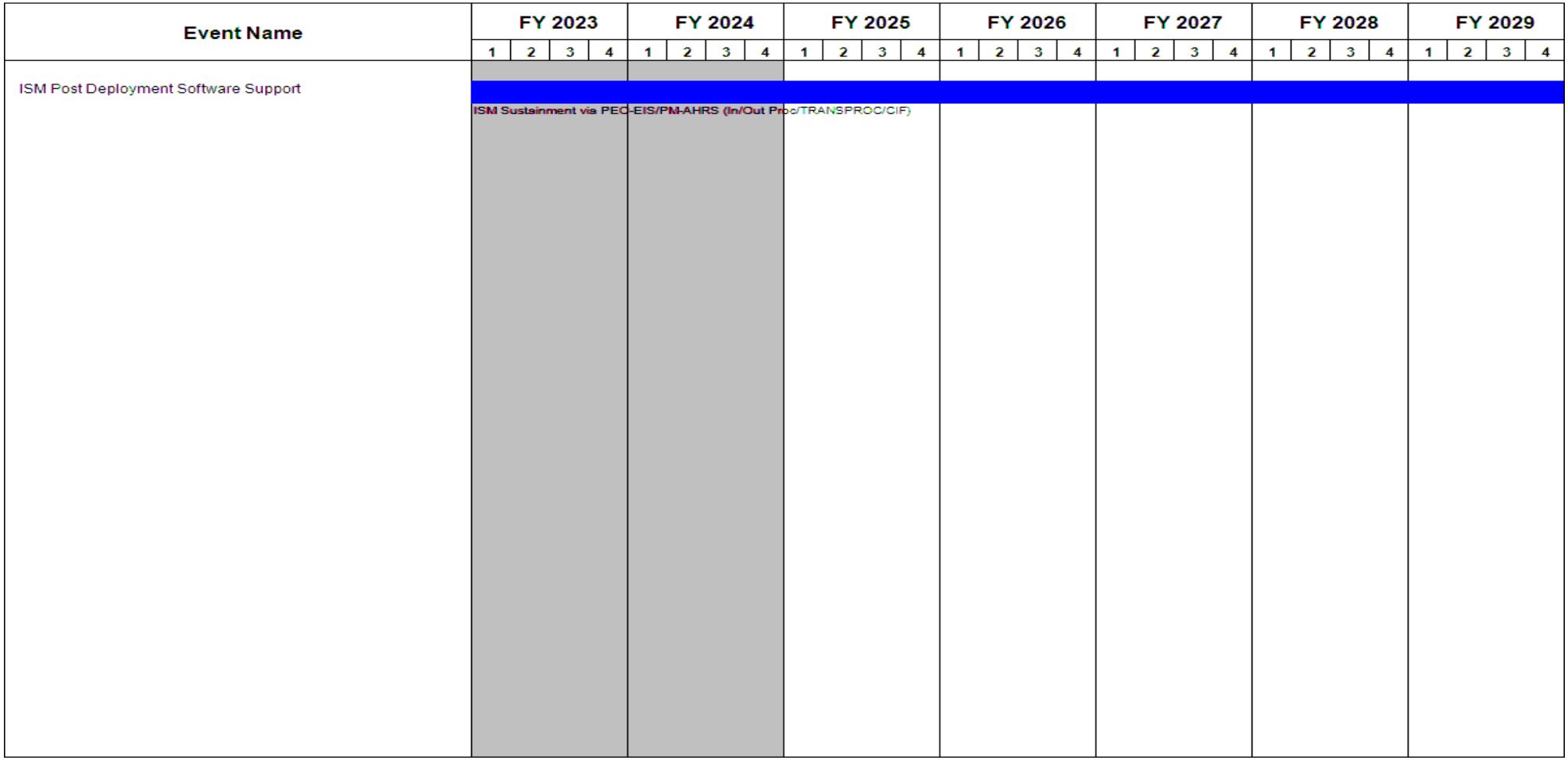


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 184 / *Installation Support Modules*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
ISM Post Deployment Software Support	4	2003	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) BY3 / *Information Systems for Installations*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
BY3: *Information Systems for Installations*	-	0.985	1.024	2.475	-	2.475	1.915	2.094	2.665	2.666	0.000	13.824
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Virtual Testbed for Installation Mission Effectiveness (VTIME) is the Army's real-time planned installation common operating picture, analysis, visualization and planning tool. It serves as an integrating and processing hub for numerous Army Installation Modernization 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 commercially available technologies to integrate and understand diverse installation data sources and improve installation planning and operations. 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 installation operations modernizing technologies.

Work is performed by the United States 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 Installation Modernization Pilot Program (AIMP2).

FY 2025 Base dollars in the amount of $2.475 million will continue development and engineering of the Virtual Testbed for Installation Mission Effectiveness Common Operating Picture dashboard and planning software. Compared to current capabilities, VTIME will enable real-time data-driven installation decision making, improve the quality and pace of installation planning, and reduce installing planning costs by an estimated 51%.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Installation Data Source Integration	0.885	1.024	2.475
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 dozens of data sources and programs, including many that lack adequate networking, authorization, or modern data interfaces.			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** BY3 / *Information Systems for Installations*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: Will continue data alignment and transformation of emerging data sets. It will continue to develop and incorporate standards for new datasets in the Installations of the Future Program, and implement automation of emerging datasets into the VTIME common operating picture (COP). It will continue deployment of preliminary "Crawl" VTIME data integration implementation. ***FY 2025 Plans:*** Will begin preparing a production cloud environment and data interface agreements. The emerging aligned and transformed datasets will be provided to installation planning software, and support expanding an installation common operating picture (COP); planning software is anticipated to improve the process and result in significant real cost savings to the Army. Will continue planning real-time integration at preliminary fielding installations to support real-time decision-making with the COP. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding increases $1.451 million due to planned transitions into a production environment for physical on-site networking configuration, new cloud hosting environment, integration, and cyber security tasks.			
Title: Requirements Definition ***Description:*** This effort focuses on establishing and documenting formal capability requirements, developing use-cases and implementation architecture for VTIME, and performance measures, in coordination with the other efforts.	0.100	-	-
Accomplishments/Planned Programs Subtotals	0.985	1.024	2.475

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

N/A

D. Acquisition Strategy

This Project is following the Defense Business System (DBS) acquisition pathway and is currently completing Solution Analysis. The program currently plans to adopt the Software Acquisition Pathway following authorization to proceed after functional requirements and acquisition planning.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) BY3 / *Information Systems for Installations*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Data alignment and transformation	MIPR	ERDC-CERL : Champaign Illinois	-	0.386	Oct 2022	0.563	Oct 2023	-		-		-	0.000	0.949	-
System engineering and program management	MIPR	Engineer Research and Development Center, Construction Engineering Research Laboratory : Champaign, Illinois	-	-		-		0.350	Oct 2024	-		0.350	0.000	0.350	-
		Subtotal	-	0.386		0.563		0.350		-		0.350	0.000	1.299	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Adopt dataset standards	MIPR	ERDC-CERL : Champaign Illinois	-	0.314	Oct 2022	0.461	Oct 2023	-		-		-	0.000	0.775	-
System configuration, systems integrations, site activation	MIPR	Engineer Research and Development Center, Construction Engineering Research Laboratory : Champaign, Illinois	-	-		-		2.125	Oct 2024	-		2.125	0.000	2.125	-
		Subtotal	-	0.314		0.461		2.125		-		2.125	0.000	2.900	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Stakeholder engagements	MIPR	ERDC-CERL : Champaign Illinois	-	0.024	Oct 2022	-		-		-		-	0.000	0.024	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) BY3 / *Information Systems for Installations*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Complete functional requirement definition & update acquisition plans	MIPR	ERDC-CERL : Champaign Illinois	-	0.107	Oct 2022	-		-		-		-	0.000	0.107	-
		Subtotal	-	0.131		-		-		-		-	0.000	0.131	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Deploy data integration implementation	MIPR	ERDC-CERL : Champaign Illinois	-	0.154	Oct 2022	-		-		-		-	0.000	0.154	-
		Subtotal	-	0.154		-		-		-		-	0.000	0.154	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	0.985		1.024		2.475		-		2.475	0.000	4.484	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** BY3 / *Information Systems for Installations*

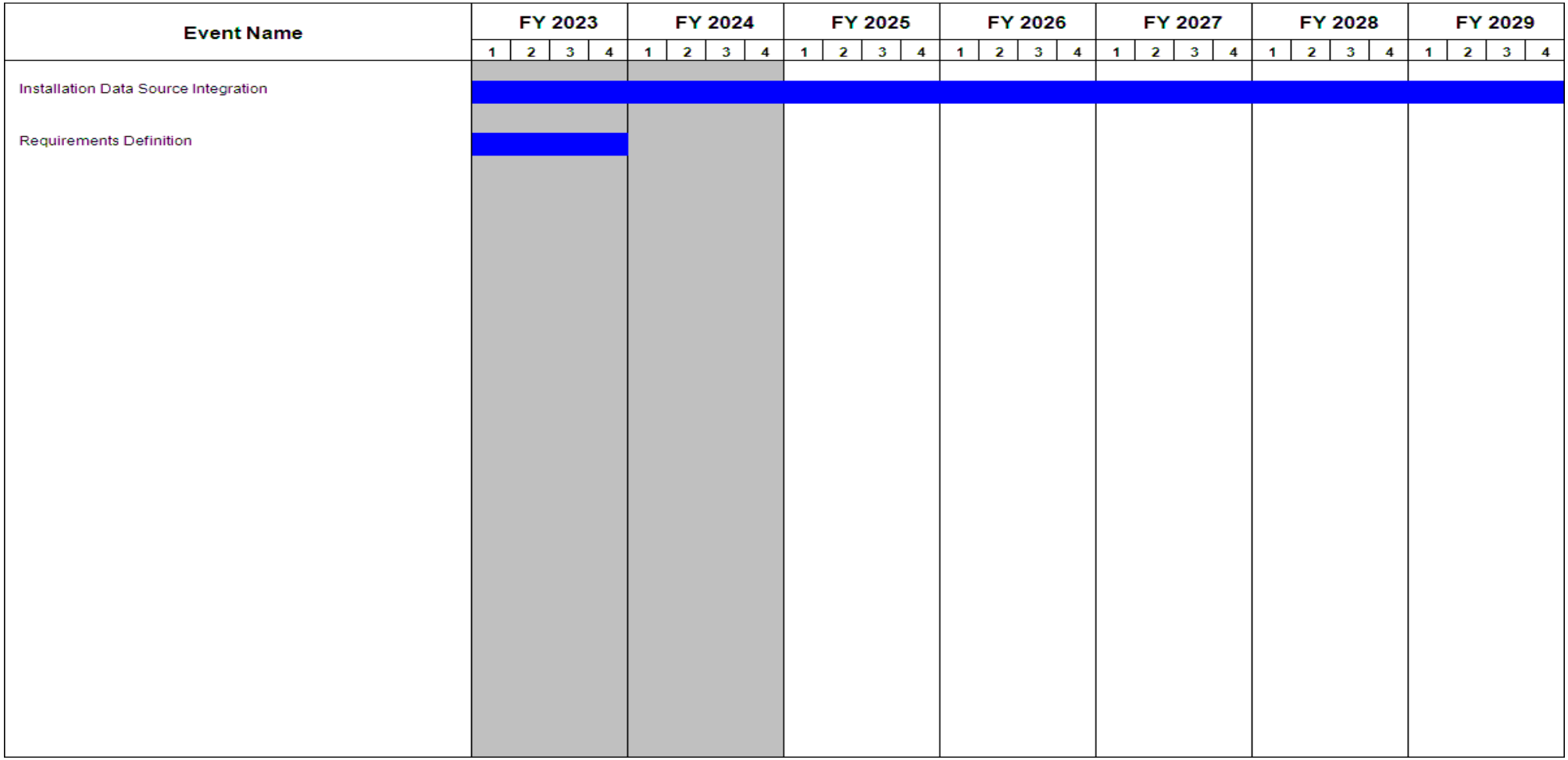


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** BY3 / *Information Systems for Installations*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Installation Data Source Integration	1	2023	4	2029
Requirements Definition	1	2023	4	2023

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) DH1 / *Operational Medicine Information System*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DH1: *Operational Medicine Information System*	-	-	4.241	6.829	-	6.829	3.202	8.808	2.331	2.340	0.000	27.751
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Operational Medicine Information Systems-Army (OMIS-A) program is an FY 2024 Acquisition New Start program that modernizes the Medical Communications for Combat Casualty Care (MC4) solutions. OMIS-A provides multiple operational health information technology (OHIT) software applications to Army deployable medical forces. OHIT software focus areas include Healthcare Delivery (i.e. electronic health records), Medical Logistics, Medical Situational Awareness, Medical Command and Control and Patient Movement. The OMIS-A program provides the following capabilities for the Army:
- Independent evaluation of software provided by the Joint Operational Medicine Information Systems (JOMIS) program to ensure effective operation and cyber security on Army infrastructure
- Validation of software applications on Army operational networks
- Maintain Authority to Operate/Authority to Connect for all software applications
- Develop OHIT software, application interfaces to Army medical devices, and training materials to support Army-specific requirements

OMIS-A utilizes Agile software methods and processes that emphasize user involvement and rapid delivery in response to changes in operations, technology, and budgets. OMIS-A's initial priority is the modernization of the Army's deployable forces electronic health record software.

Funding provides engineering, developmental testing, software development, and integration of information management/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). Additionally, the OMIS-A program 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.

FY 2025 Base funding in the amount of $6.829 million ensures integration and effective operation of JOMIS-provided Healthcare Delivery applications on Army hardware, maintains system cybersecurity, develops system interfaces with other components of the Army system, configuration management, continuous testing throughout the development process, network testing, develops training materials for the Army, and develops remote software fielding methodologies.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Engineering for integration of JOMIS NGEHR	-	2.139	3.199
Description: 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 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** DH1 / *Operational Medicine Information System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: Independent evaluation, verification and validation of modernized JOMIS software operating on Army infrastructure. - Ensuring effective operation and cyber security. - Development of any sets of software artifacts (threads, reports, queries, or scripts, or data export schemas) for specific external system interface with other components of the Army system. - Management of configuration and quality assurance for overall system. - Demonstrate that the engineering design and development process is complete, the design risks have been minimized, the system will meet specifications, and whether the engineering design is supportable (practical, maintainable, safe, etc.). - Maintaining Authority to Operate/Authority to Connect on all networks where NGEHR may reside. ***FY 2025 Plans:*** A major emphasis in FY 2025 is to fully adopt and incorporate Agile software methods and processes by integrating all planning, design, development, and testing into an iterative lifecycle to deliver software capability at frequent intervals. User involvement and rapid delivery will be major tenets of this process, allowing a more effective response to changes in operations, technology, and budgets. The engineering integration effort will be accomplished by independent evaluation, verification, and validation of modernized JOMIS software operating on Army infrastructure. Effective operation and cyber security will be ensured and provide Authority to Operate/Authority to Connect on all networks where electronic health records may reside. Where necessary, any software artifacts (threads, reports, queries, scripts, data export schemas) will be developed for specific external system interfaces with other components of the Army systems. Configuration and quality assurance for the overall systems will be overseen and managed in this activity. The objective of this activity is to demonstrate that the engineering design and development process is complete, the design risks have been minimized, the systems will meet specifications, and that the engineering design is supportable (practical, maintainable, safe, etc.). The goal of this activity is regular delivery of useful capability in multiple releases to Army units. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increases $1.060 million for the buildup of engineering capability from program new start in FY 2024 to integrate and deliver capabilities provided by the Joint Program. An increased number of JOMIS Minimum Viable Capability Releases (MVCRs) and Minimum Viable Products (MVPs) from FY 2024 is expected for integration into Army systems.			
Title: Comprehensive Testing	-	2.102	2.710

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** DH1 / *Operational Medicine Information System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: Continuous testing will support DevSecOps (Development/Security/Operations) to improve product quality and enable development teams to deliver stable and reliable software releases on shorter cycles. Continuous Network testing on all Army networks, and Army operations on networks in foreign countries will endure throughout the development process, while maintaining collaboration and communication with software developers. Cybersecurity testing will be specifically undertaken for maintaining Authority to Operate/Authority to Connect on all networks where electronic health records may reside. ***FY 2024 Plans:*** - To address identification of test objectives, baselines and foundations to be tested, hardware and software configurations to be tested, development of Use Cases to fully exercise the application's functionality, step-by-step procedures at the key stroke level, Entrance/Exit criteria, Pass/Fail criteria, failure identification and analysis, schedules. - Test on all Army networks, and Army operations on networks in foreign countries. - Documentation of the results of all testing. ***FY 2025 Plans:*** All testing initiatives will fully adopt and incorporate Agile software methods and processes of developing, testing, and executing to deliver capabilities fast and effectively. The iterative testing process will support engineering and allow rapid response to changes in operations and technology. The testing strategy will address identification of test objectives, baselines and foundations to be tested, hardware and software configurations to be tested, development of Use Cases to fully exercise the application's functionality, step-by-step procedures at the key stroke level, Entrance/Exit criteria, Pass/Fail criteria, failure identification and analysis, and schedules. Regression testing will be performed to verify and ensure recent changes do not negatively affect existing features of the software, and also identify the scope of hardware specifications required to operate the system. Comprehensive testing will be accomplished on all Army networks, and Army operations on networks in foreign countries, with complete documentation of the results of all testing developed and retained. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increase of $0.608 million will be used for the buildup of comprehensive testing capability and environment from program new start in FY 2024 in order to respond to increased updates/releases of JOMIS MVCRs and MVPs delivered to Army for integration into Army system.			
Title: Development of training products and fielding methods	-	-	0.920
Description: Development of training products and software delivery methods for effective and efficient fielding to Army units.			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** DH1 / *Operational Medicine Information System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 Plans: In FY 2025, training information and materials provided by Joint program for NGEHR will be evaluated and enhanced for use by Army units. The focus of the training materials will be directed to computer based training (CBT) usage while providing credible, rigorous and relevant training and education. In addition to remote training development, methodologies for remotely fielding software to Army units will be identified and/or developed. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increase of $0.920 million will be used for development of training products and fielding methodologies to efficiently deliver software to Army units.			
Accomplishments/Planned Programs Subtotals	-	4.241	6.829

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• B80015: *OPERATIONAL MEDICINE INFORMATION SYSTEMS - ARMY*	-	1.374	0.000	-	0.000	-	-	-	-	0.000	1.374
• OMA - 432612000: *Logistics Automation*	-	-	4.163	-	4.163	4.153	4.379	4.394	4.453	Continuing	Continuing

Remarks

- FY 2024 OPA provides initial licenses necessary to field modernized software
- OMA provides continual cybersecurity monitoring and advanced system/application support and troubleshooting for fielded system capabilities

D. Acquisition Strategy

OMIS-A is a Software Acquisition Pathway program under the DoDI 5000.87. The OMIS-A program is an FY 2024 acquisition New Start program that modernizes the MC4 solutions. OMIS-A provides multiple operational health information technology (OHIT) software applications to Army deployable medical forces. OHIT software focus areas include Healthcare Delivery (i.e. electronic health records), Medical Logistics, Medical Situational Awareness, Medical Command and Control and Patient Movement. The focus of the OMIS-A program is to engineer, design, integrate, test, acquire and field the following Army OHIT capabilities:

- Independent evaluation, verification and validation to ensure effective operation and cyber security of software provided by the JOMIS program to operate on Army infrastructure
- Testing on all Army networks, and Army operations on networks in foreign countries, maintaining Authority to Operate/Authority to Connect
- Development of training products and software delivery methods for effective and efficient fielding of OHIT software to Army units
- Develop OHIT software, application interfaces to Army medical devices, and training materials to support Army-specific requirements

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** DH1 / *Operational Medicine Information System*

OMIS-A will utilize the Agile process methodology to integrate, test, train and field these modernized and enhanced capabilities to the user at the earliest possible date. The Continuous Integration/Continuous Deployment (CI/CD) 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 upgrades. CI/CD bridges the gaps between development and operation activities and teams by enforcing automation in building, testing and deployment of applications. This approach also compiles the incremental code changes made by developers, then link and package them into software deliverables. Automated tests verify the software functionality, and automated deployment services deliver them to end users. The aim is to increase early defect discovery, increase productivity, and provide faster release cycles. 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 capability will undergo a full range of testing to include software unit testing, integration testing, interoperability testing and software qualification testing.

The OMIS-A Program will partner with the JOMIS program to deliver integrated capabilities of JOMIS-provided software applications in MVCRs in accordance with the JOMIS acquisition schedule. Additionally, OMIS-A will develop and deliver MVCRs of Army-specific OHIT software applications, 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.

In January 2024, the OMIS-A program exercised the final option period of the MC4 Technical and Engineering Services Contract for support in calendar year 2024. The OMIS-A Technical and Engineering Services Support Contract is anticipated to be awarded in January 2025.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) DH1 / *Operational Medicine Information System*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering for Integration of JOMIS NGEHR	C/CPFF	FY2024-CACI; FY2025-TBD : Fort Detrick, MD	-	-		2.139	Jan 2024	3.199	Jan 2025	-		3.199	0.000	5.338	-
Development of training products and fielding methods	C/CPFF	FY2024-CACI, FY2025-TBD : Fort Detrick, MD	-	-		-		0.920	Jan 2025	-		0.920	0.000	0.920	-
		Subtotal	-	-		2.139		4.119		-		4.119	0.000	6.258	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Comprehensive Testing	C/CPFF	FY2024-CACI, FY2025-TBD : Fort Detrick, MD	-	-		2.102	Jan 2024	2.710	Jan 2025	-		2.710	0.000	4.812	-
		Subtotal	-	-		2.102		2.710		-		2.710	0.000	4.812	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		4.241		6.829		-		6.829	0.000	11.070	N/A

Remarks

New requirements for modernization of the operational electronic health system have been established. RDTE is required to evaluate, address and develop the modernization, which is expected to be fulfilled by multiple interoperable systems.

In January 2024, the OMIS-A program exercised the final option period of the MC4 Technical and Engineering Services Contract for support in calendar year 2024, which will be performed by CACI at Fort Detrick, MD. The OMIS-A Technical and Engineering Services Support Contract is anticipated to be awarded in January 2025 (performing activity TBD).

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** DH1 / *Operational Medicine Information System*

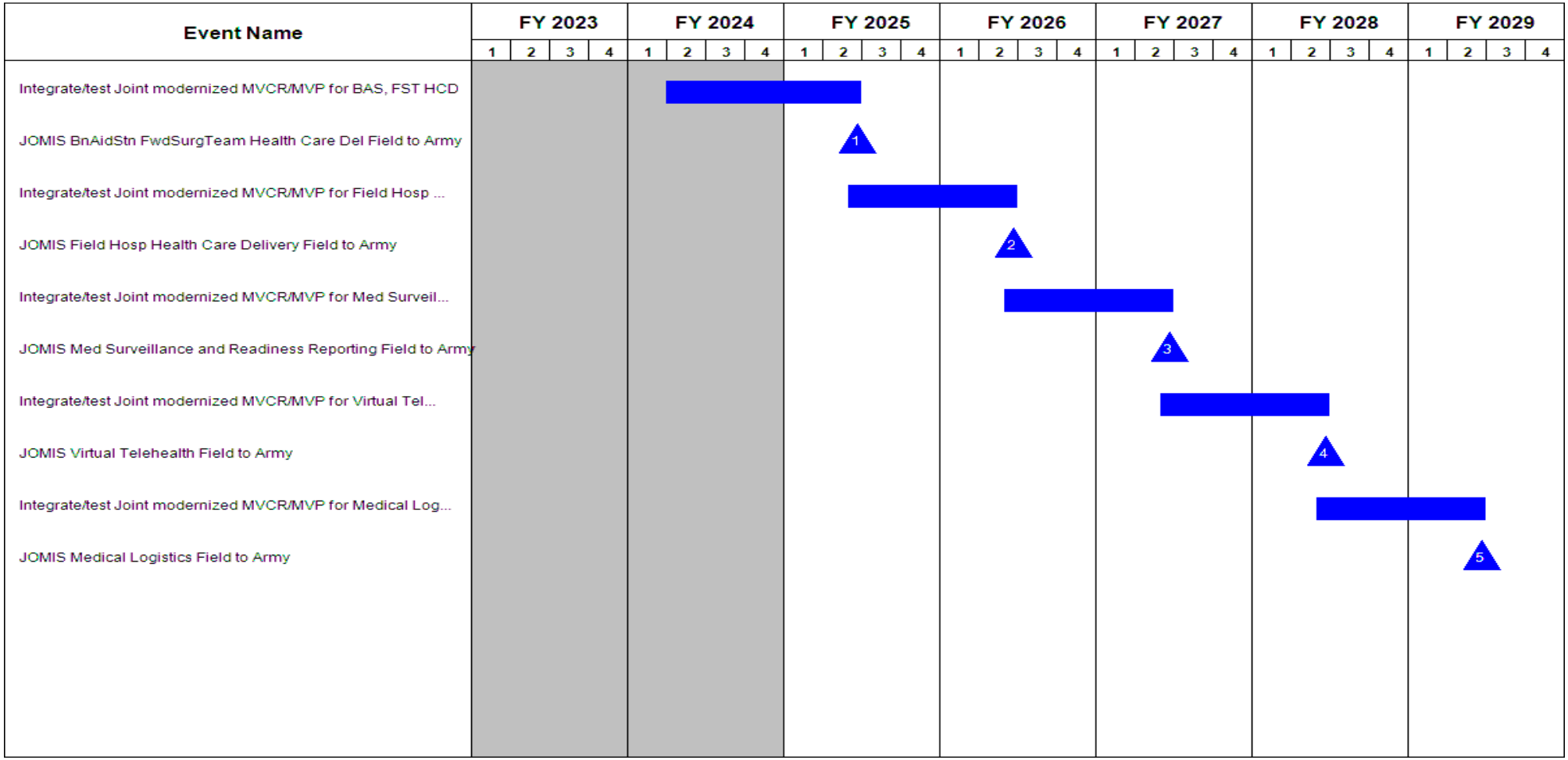


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** DH1 / *Operational Medicine Information System*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Integrate/test Joint modernized MVCR/MVP for BAS, FST HCD	2	2024	2	2025
JOMIS BnAidStn FwdSurgTeam Health Care Del Field to Army	2	2025	2	2025
Integrate/test Joint modernized MVCR/MVP for Field Hosp Health Care Del	2	2025	2	2026
JOMIS Field Hosp Health Care Delivery Field to Army	2	2026	2	2026
Integrate/test Joint modernized MVCR/MVP for Med Surveillance and Readiness Reporting	2	2026	2	2027
JOMIS Med Surveillance and Readiness Reporting Field to Army	2	2027	2	2027
Integrate/test Joint modernized MVCR/MVP for Virtual Telehealth	2	2027	2	2028
JOMIS Virtual Telehealth Field to Army	2	2028	2	2028
Integrate/test Joint modernized MVCR/MVP for Medical Logistics	2	2028	2	2029
JOMIS Medical Logistics Field to Army	2	2029	2	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) FL9 / *Army Accessioning IT Development*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FL9: *Army Accessioning IT Development*	-	2.443	2.288	2.151	-	2.151	2.151	2.151	2.151	2.151	0.000	15.486
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Army Suicide Prevention program supports the assessment requirement that enhances the Soldier Lifecycle (e.g., selection, assignment, training, leader development). This program 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 program 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.

FY 2025 Base dollars in the amount of $2.151 million will be used for the continued assessment of sub-clinical behavioral issues and the identification of cross-cutting risk and protective factors and preventive approaches for harmful behaviors; Updating and modernization of data and analytical tools to support data assessments aligning to the Department of Defense Suicide Prevention Response Independent Review Commission recommendations.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Army Suicide Prevention	2.443	2.288	2.151
Description: This program develops a pre-entry or entry assessment package that enhances the Soldier Lifecycle (e.g., selection, assignment, training, leader development). This program 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 program 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. Work in this program is performed by the Directorate for Prevention, Resilience, and Readiness in Arlington, VA. ***FY 2024 Plans:*** FY 2024 funds will support the continued assessment of sub-clinical behavioral issues and the identification of cross-cutting risk and protective factors and preventive approaches for harmful behaviors. Finalizing Cloud migration/modernization of data and analytical tools. ***FY 2025 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FL9 / *Army Accessioning IT Development*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 funds will support the continued assessment of sub-clinical behavioral issues and the identification of cross-cutting risk and protective factors and preventive approaches for harmful behaviors. Updating modernization of data and analytical tools to support data assessments aligning to the OSD Suicide Prevention Response Independent Review Commission recommendations. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decreases $0.137 million due to completion of cloud migration and is based on estimated costs in the current Enterprise Cloud Management Agency costing model.			
Accomplishments/Planned Programs Subtotals	2.443	2.288	2.151

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Army Suicide Prevention:

The Army Suicide Prevention assessment is an ongoing study on the efficacy of Resilience and Mindfulness training throughout the Army from Accessioning through Initial Entry Training 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, 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 Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) FL9 / *Army Accessioning IT Development*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Army Suicide Prevention	TBD	RAND : Arlington, VA 22202	4.738	2.443	Feb 2023	2.288		2.151	Jan 2025	-		2.151	Continuing	Continuing	Continuing
		Subtotal	4.738	2.443		2.288		2.151		-		2.151	Continuing	Continuing	N/A

	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4.738	2.443		2.288		2.151		-		2.151	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FL9 / *Army Accessioning IT Development*

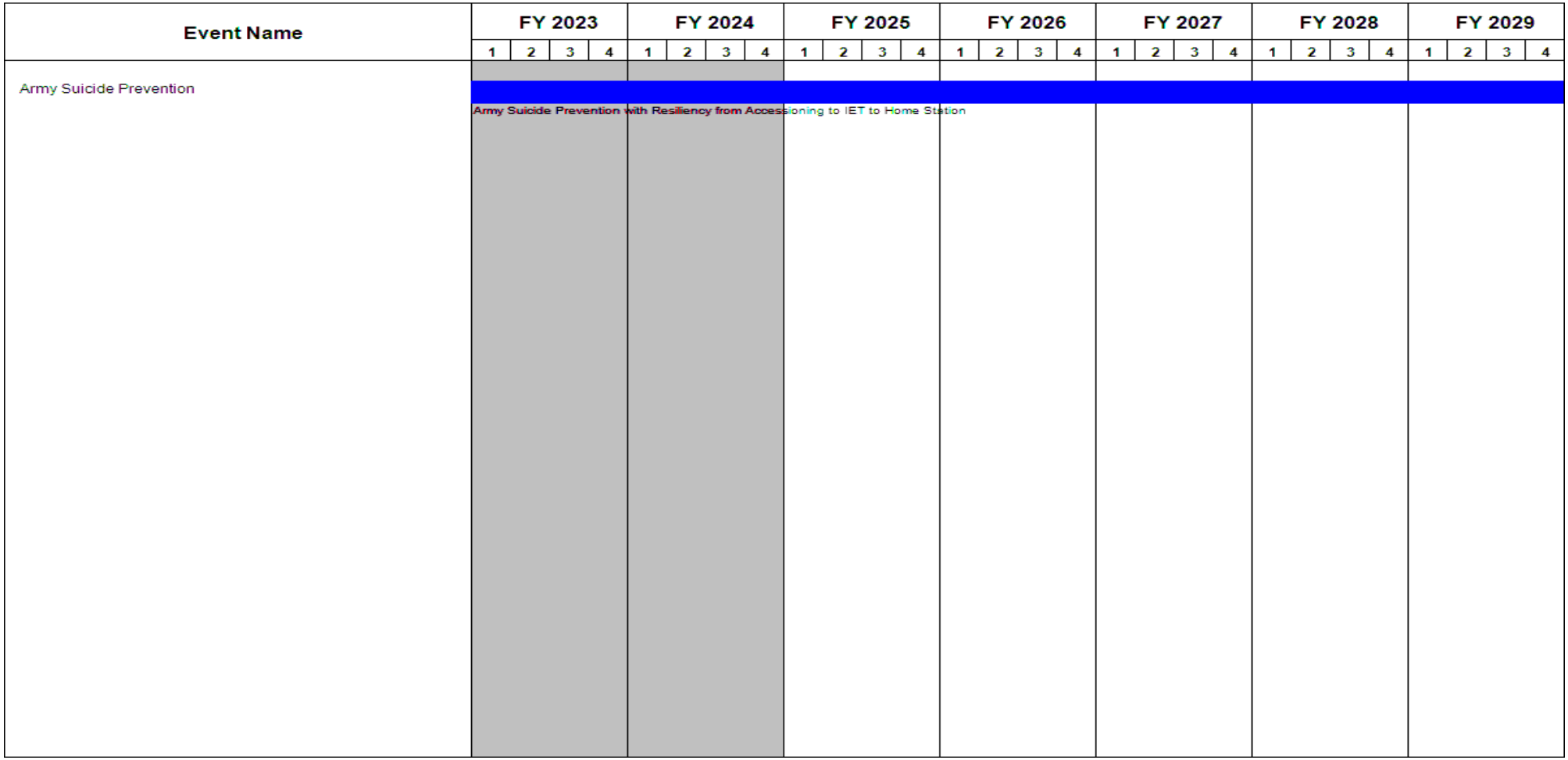


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FL9 / *Army Accessioning IT Development*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Army Suicide Prevention	3	2020	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*				Project (Number/Name) FM7 / *Human Resouces Information Technology*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
FM7: *Human Resouces Information Technology*	-	11.152	11.449	7.086	-	7.086	7.263	7.512	6.973	6.982	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.

1. 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 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.

FY 2025 dollars in the amount of $2.699 million maintain modernization efforts ensuring the transition of legacy Human Resource Domain applications and databases are completed for migration to Army cloud environment.

2. Army Records Information Management System (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.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM7 / *Human Resouces Information Technology*

FY 2025 Base dollars in the amount of $1.977 million sustain technology refresh efforts ensuring the Army's records comply with statutory and regulatory requirements, preserve individual record integrity, mitigate the risk of historical information loss, and ensure official Army records are available for Congressional, Government Accountability Office, Executive Branch, and Freedom of Information Act (FOIA) requirements. We fund contractor man-years to sustain this system through an IT Services contract.

3. 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.

FY 2025 Base dollars in the amount of $1.360 million maintain modernization efforts ensuring the translation of both the FASOR legacy code and data migration to the modernized database. These efforts are necessary for FASOR to continue to meet DoD and Army FAP regulatory requirements.

4. Army Sexual Harassment/Response and Prevention (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.

FY 2025 Base dollars in the amount of $1.050 million support Advanced Analytics capabilities, business intelligence capabilities, and predictive analysis for SHARP Data. The outcomes will inform increased Prevention efforts in line with the OSD Sexual Assault Independent Review Commission (IRC) recommendations.

5. 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 is based on a storefront intranet model to provide access from within Transition centers. The application also allows for access outside of Transition centers to support mobilizing 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.

TAP XXI has no funding beyond FY 2024.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: HRC Core IT	6.297	5.517	2.699

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM7 / *Human Resouces Information Technology*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: 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. ***FY 2024 Plans:*** FY 2024 funding continues to support iPERMS enhancements and modifications, as well as development of interfaces based upon emerging requirements, cybersecurity, functionality, and compliance with Army standards, cArmy Cloud Migration efforts, and ASBS 2.0 development which also supports DA G1 Talent Management Task Force Battalion Command Assessment Program (BCAP) which is estimated for completion by Sep 2023. Additionally, USAHRC will utilize FY 2023 and FY 2024 funding to complete rationalize data and databases to achieve the Army Data Strategy, modernizing applications to leverage authoritative data sources to reduce duplicate application capabilities, resulting in data and applications requiring fewer infrastructure services. This data and application rationalization allows USAHRC to operate a standard infrastructure, reducing hardware and software complexities and meets compliance with Army Common Operating Environment standards in accordance with Army Application Management Business Office (AAMBO). ***FY 2025 Plans:*** FY 2025 funding continues to support iPERMS enhancements and modifications, as well as development of interfaces based upon emerging requirements, cybersecurity, functionality, and compliance with Army standards, cArmy Cloud Migration efforts, and ASBS 2.0 development which also supports DA G1 Talent Management Task Force Battalion Command Assessment Program (BCAP) which is estimated for completion by Sep 2026. Additionally, USAHRC will utilize FY 2024 and FY 2025 funding to complete rationalize data and databases to achieve the Army Data Strategy, modernizing applications to leverage authoritative data sources to reduce duplicate application capabilities, resulting in data and applications requiring fewer infrastructure services. This data and application rationalization allows USAHRC to operate a standard infrastructure, reducing hardware and software complexities and meets compliance with Army Common Operating Environment standards in accordance with Army Application Management Business Office (AAMBO). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decreases $2.818 million due to change in appropriation funding requirements for the iPERMS cArmy Cloud Migration efforts. ASBS 2.0 development has a current contract with a period of performance to end 1 October 2025. These efforts are in line with the completion rationalization of data and databases to achieve the Army Data Strategy, modernization effort to leverage authoritative data sources to reduce duplicate application capabilities, resulting in data and applications requiring fewer infrastructure services.			
Title: ARIMS	2.095	2.103	1.977

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM7 / *Human Resouces Information Technology*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
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 2024 Plans:*** Funds are used to sustain technology refresh efforts ensuring the Army's records comply with statutory and regulatory requirements, preserves individual record integrity, mitigates the risk of historical information loss, and ensures official Army records are available for Congressional, Government Accountability Office, Executive Branch, and FOIA requirements. We fund contractor man-years to sustain this system through an IT Services contract (W15QKN-19-F-0975-P00005). ***FY 2025 Plans:*** Funds are used to sustain technology refresh efforts ensuring the Army's records comply with statutory and regulatory requirements, preserves individual record integrity, mitigates the risk of historical information loss, and ensures official Army records are available for Congressional, Government Accountability Office, Executive Branch, and FOIA requirements. We fund contractor man-years to sustain this system through an IT Services contract. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decreases $0.126 million due to reduced level of effort in records management.			
Title: Family Advocacy System of Records (FASOR)	1.460	1.544	1.360
Description: Family Advocacy System of Records (FASOR) is the information system used by the US Army FAP to support adult and child abuse incident management, central registry of victims and offenders to authorized agencies, and to provide input for			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM7 / *Human Resouces Information Technology*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
required Congressional and public reporting. FASOR is the authoritative source (registry) for all incidents of adult and child abuse in the Army. It is on the Army Human Resource Command's High Value Asset list. ***FY 2024 Plans:*** FY24 funding will provide continued software development & architecture support as new functionality is implemented while finalizing the migration of the legacy FASOR data structure and data to a modernized structure. High level functionality modules include, but not limited to; Family Advocacy Program (FAP) Incident (Case) Management, FAP Data / Reports, Problematic Sexual Behavior-Child & Youth, and a New Parent Support Program. ***FY 2025 Plans:*** FY 2025 funding will provide continued software development & architecture support as additional functionality is implemented while finalizing the migration of the legacy FASOR data into a new modernized structure. High level functionality modules include, but not limited to; Family Advocacy Program (FAP) Incident (Case) Management and FAP Data / Reporting. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decreases $0.184 million due to software development being completed and migrated into the new modernized structure to allow easier migration to the Army Cloud, by JUL 2026.			
Title: Army SHARP Data Management ***Description:*** 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. ***FY 2024 Plans:*** Maintain ability of Army leaders at all levels to manage ICRS data through E-Document Format and documents upload capabilities within ICRS. Increase support of Advanced Analytics capabilities, increase business intelligence capabilities, and support predictive analysis for SHARP Data to inform increased Prevention efforts. ***FY 2025 Plans:*** Maintain ability of Army leaders at all levels to manage ICRS data through E-Document Format and documents upload capabilities within ICRS. Continue support of Advanced Analytics capabilities, business intelligence capabilities, and predictive analysis for SHARP Data to inform increased Prevention efforts in line with the OSD Sexual Assault Independent Review Commission (IRC) recommendations. ***FY 2024 to FY 2025 Increase/Decrease Statement:***	1.046	1.117	1.050

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM7 / *Human Resouces Information Technology*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 funding decreases $0.067 million due to the estimated costs of sustaining support for analytics, business intelligence, and predictive analysis with efficiency of data efforts.			
Title: SFL-TAP XXI Modernization ***Description:*** Transition Assistance Program (TAP) XXI Modernization - Provide new capability in order to create efficiencies and incorporate industry standards. ***FY 2024 Plans:*** The command has an estimated project completion to occur by expiration date of FY 2024 funds, 30 Sep 2025. The command is unable to provide a valid estimate completion date or correct appropriation based on pending legal opinion. Upon receipt of the legal opinion all necessary requirement actions will be in implemented by funds expiration of FY 2024. The increase is based on inflation to cover the Specific work for FY22 includes development / addition of: 1. Produce Intake Form Integration, 2. Case Synopsis Module; 3. New Data Elements; 4. Reporting Module; 5. Cybersecurity Requirements. Specific work for FY23 includes development / addition of:1. Forms Upload Enhancements (MFR & DA Form 7746) 2. Data Warehouse Install 3. Ad Hoc Reporting & Predictive Analytics 4. User Management Module 5. Cybersecurity Requirements these actions will be implemented in FY 2024 to complete. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** No funds provided in FY 2025, based on projected completion of modernization efforts by 30 September 2024.	0.254	1.168	-
Accomplishments/Planned Programs Subtotals	11.152	11.449	7.086

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) FM7 / *Human Resouces Information Technology*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SFL--TAP	MIPR	FA7014 AFDW PK : 1500 W PERIMETER RD STE 5750, CP 240 612 2997 ANDR	1.267	-		-		-		-		-	0.000	1.267	-
		Subtotal	1.267	-		-		-		-		-	0.000	1.267	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
HRC Core IT	C/FFP	Alaska NorthStar Resources LLC : 315 Lincoln Street Suite 300 SITKA, AK 99835-7579	17.181	6.297	Nov 2022	5.517		2.699		-		2.699	0.000	31.694	-
ARIMS	C/FFP	Hexagon US Federal : Chantilly, VA 20151	1.454	2.095	Feb 2023	2.103		1.977		-		1.977	Continuing	Continuing	Continuing
Army SHARP Data Management	C/FFP	Spider Strategies, Inc : Arlington, VA 22209	0.996	1.046	Jul 2023	1.117		1.050		-		1.050	Continuing	Continuing	Continuing
SFL-TAP	MIPR	FA7014 AFDW PK : 1500 W PERIMETER RD STE 5750, CP 240 612 2997 ANDR	1.015	0.254	Sep 2023	1.168		-		-		-	0.000	2.437	-
		Subtotal	20.646	9.692		9.905		5.726		-		5.726	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) FM7 / *Human Resouces Information Technology*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Family Advocacy System of Records (FASOR)	Reqn	Three Wire Systems LLC : Falls Church, VA	4.575	1.460	Jul 2023	1.544	Oct 2023	1.360	Jul 2025	-		1.360	Continuing	Continuing	Continuing
		Subtotal	4.575	1.460		1.544		1.360		-		1.360	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	26.488	11.152		11.449		7.086		-		7.086	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM7 / *Human Resouces Information Technology*

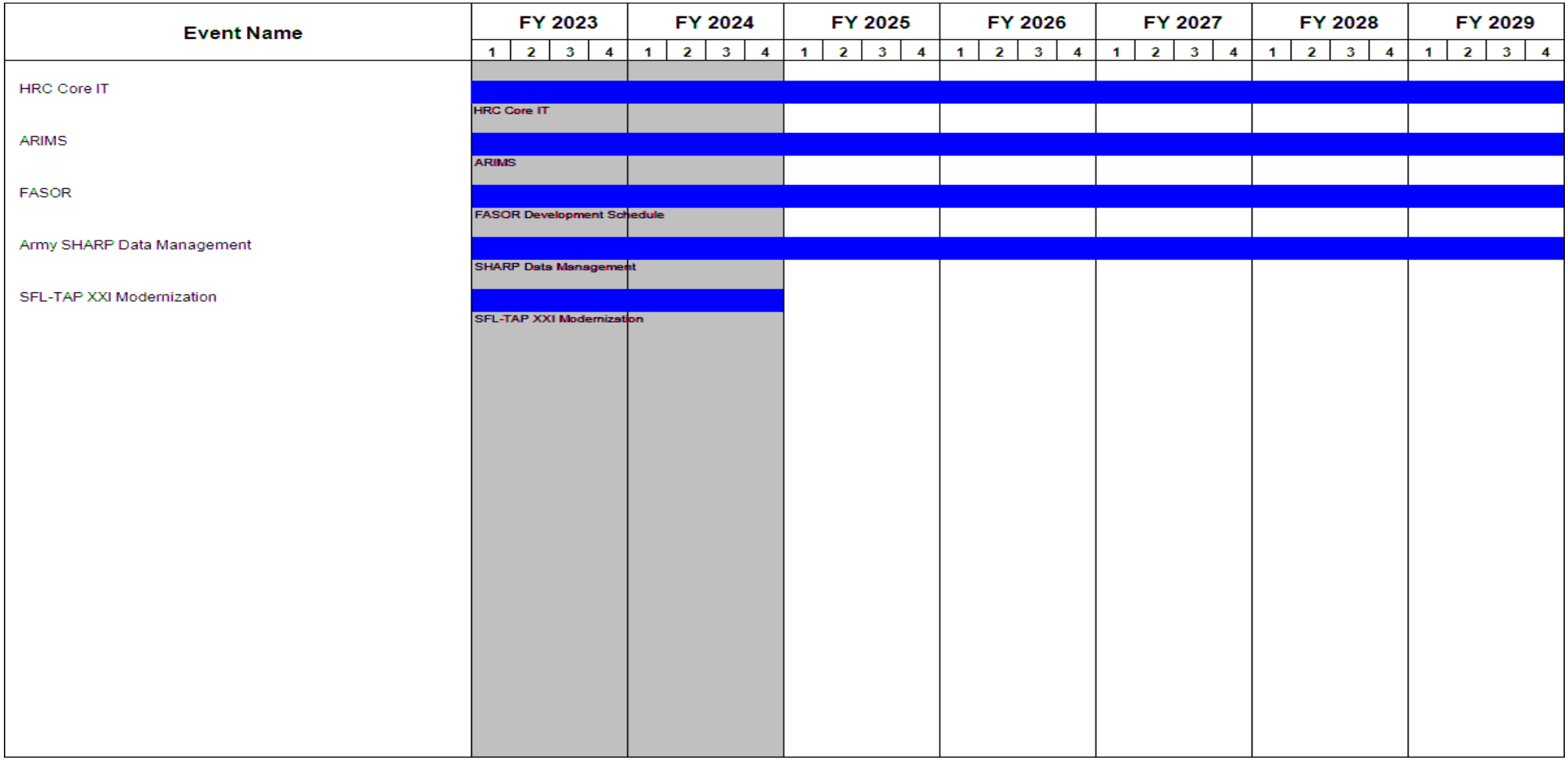


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM7 / *Human Resouces Information Technology*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
HRC Core IT	4	2020	4	2029
ARIMS	1	2020	4	2029
FASOR	1	2020	4	2029
Army SHARP Data Management	1	2020	4	2029
SFL-TAP XXI Modernization	1	2020	4	2024

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*				Project (Number/Name) FM8 / *Information Technology for Training Systems*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
FM8: *Information Technology for Training Systems*	-	26.496	5.993	11.560	-	11.560	1.560	1.587	1.603	1.619	0.000	50.418
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project funds information technology systems that support Army Training. The two 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). Utilizing an iterative user-centered design and development approach, ATIS will be delivering the premier training management, development, scheduling, resourcing, and learning system for the Army. ATIS will enable accurate, consistent, and efficient data entry with a focus on user experience design and the incorporation of data entry controls and feedback mechanisms.

The Army currently lacks a data-focused and reliable enterprise level Common Operational Picture (COP) of the training environment. 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 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 over $75 million.

Without ATIS, Army organizations will continue to maintain an abundance of legacy systems that have redundancies across functionality and capability, which contributes to redundancy and discrepancies in data, thus inhibiting efficient use of training resources (people, time, money, material) and inhibiting leaders' ability to address training readiness at every echelon of the Army. ATIS is being postured to best support DoD and Army Digital Modernization Strategic Initiatives as the authoritative source of data for Training and Readiness information.

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.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM8 / *Information Technology for Training Systems*

FY 2025 Base dollars in the amount of $10.020 million will enable ATIS to work toward sunsetting the Digital Training Management System. These features will be delivered in continuous integrated releases of capability in accordance with the Continuous Integration/Continuous Development (CI/CD) model, and will utilize robust ATIS infrastructure to continuously improve the quality of software delivered, improve resource utilization, reduce manual errors through the use of automation in testing and integration, and ensure increased efficiency over time through the use of iterative processes. ATIS has also built a refined backlog of Agile work artifacts that not only delivers the requirements as prioritized, but also reduces risk to usability through the incorporation of end-user feedback on design.

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 Defense Language Institute Foreign Language Center (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 unordered similarity 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 advanced text analytics capabilities; developed and delivered integrated grade level lookup capabilities; developed and delivered annotator alignment analysis capabilities in 2 languages.

FY 2025 Base dollars in the amount of $1.540 million support the DLPT5 CACM. The DLPT5 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.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Army Training Information System (ATIS)	25.247	4.447	10.020
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 assess training requirements so that they can more effectively plan, prepare, execute, and assess training. End result is an ATIS that enables Soldiers to train as they will fight, so they can effectively fight as they have trained.			
FY 2024 Plans: FY 2024 Plans: During 1QFY24 ATIS will successfully complete the migration and sunsetting of the legacy Army Learning Management System (ALMS) and the standup of ATIS Learn in the ATIS Objective Environment. Additionally, ATIS is estimated to complete 30% of the features and functionality required to sunset the Digital Training Management System. These efforts will migrate and sunset an additional two legacy systems. Finally ATIS will continue efforts to produce a scheduling and resourcing solution that can be integrated into ATIS, providing the majority of the enterprise scheduling and resourcing capabilities.			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM8 / *Information Technology for Training Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Fund distribution is below: Management Services (using bridging contract) - Funds will be used to continue funding professional staff and software development teams, supporting the ATIS product management office in oversight of the development of ATIS and the sunsetting of legacy systems. Product Development (bridge) - Funds will be used for development teams. The product teams will utilize the established ATIS environment and ATIS development pipeline to deliver software infrastructure and capability, beginning with the sunsetting of the legacy Army Learning Management System (ALMS) and the standup of ATIS Learn in the ATIS objective environment in 1Q FY24. Support Services (cloud) - Funds will continue to procure cloud services via the Cloud Account Management Optimization (CAMO) record with the Department of the Army Enterprise Cloud Management Agency. ***FY 2025 Plans:*** During FY 2025, ATIS will work on completing the features necessary to sunset the Digital Training Management System. These features will be delivered in continuous integrated releases of capability in accordance with the Continuous Integration/Continuous Development (CI/CD) model, and will utilize robust ATIS infrastructure to continuously improve the quality of software delivered, improve resource utilization, reduce manual errors through the use of automation in testing and integration, and ensure increased efficiency over time through the use of iterative processes. ATIS has also built a refined backlog of Agile work artifacts that not only delivers the requirements as prioritized, but also reduces risk to usability through the incorporation of end-user feedback on design. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding increases $5.573 million supports the agile process by increasing the number of Product Teams from three to seven teams. The increase in teams will enable the Product Office to work towards sunsetting the Digital Training Management System.			
Title: DLPT5 Content Analysis, Categorization & Modeling ***Description:*** Development of DLPT5 Content Analysis, Categorization and Modeling (CACM) capabilities. For integration within the DLIFLC MIT LL TIDWA Domino system. These capabilities are in direct response to DLIFLC's DoDI assigned responsibilities for DLPT item bank maintenance, psychometric analysis and informed pool management, and closely support the DLPT Validity Framework. ***FY 2024 Plans:***	1.249	1.546	1.540

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM8 / *Information Technology for Training Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
initiate development of Topic modeling capabilities - initiate development of predictive modeling capabilities ***FY 2025 Plans:*** FY 2025 funding will initiate the development of topic modeling and predictive modeling capabilities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding decrease reflects planned lifecycle of the effort.			
Accomplishments/Planned Programs Subtotals	26.496	5.993	11.560

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

FY 2024:
1. OPA2/BD3000/BE4162/MACOM AUTOMATION SYSTEMS: $1.918 million
2. OMA/432612000/Information Management - Automation Support: $.080 million

FY 2025:
1. OPA2/BD3000/BE4162/MACOM AUTOMATION SYSTEMS: $0
2. OMA/432612000/Information Management - Automation Support: $0

D. Acquisition Strategy

The Program Management Office (PMO) will conduct market research and prepare comprehensive documentation to facilitate future competitive procurements for Army Training Management, Enterprise Scheduling, and Resourcing capabilities. Those procurements will utilize the refined backlog of Agile work artifacts, ensuring the solutions delivered are independent products that seamlessly integrate in a modular open system architecture. ATIS will also continue to leverage the Agile Product Development contract to work toward sunsetting the Digital Training Management System in FY 2025. These features will be delivered in continuous integrated releases of capability in accordance with the Continuous Integration/Continuous Development (CI/CD) model, and will utilize robust ATIS infrastructure as code to continuously improve the quality of software delivered, improve resource utilization, reduce manual errors through the use of automation in testing and integration, and ensure increased efficiency over time through the use of iterative processes.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) FM8 / *Information Technology for Training Systems*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ATIS Program Management Office (includes LMI Bridge Effort)	C/T&M	ATIS Program Management Office : Newport News, VA	13.556	10.178	Mar 2023	2.233		-		-		-	Continuing	Continuing	Continuing
ATIS MITRE Support	MIPR	W4GV USA HQ COMM ELECT CMD : Aberdeen Proving Grounds, MD	2.677	1.536	Oct 2022	-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	16.233	11.714		2.233		-		-		-	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ATIS Product Development Contract	C/T&M	Various : Newport News, VA	85.578	10.075	Mar 2023	1.107		8.820	Oct 2024	-		8.820	0.000	105.580	-
DLPT5 Content Analysis, Categorization & Modeling	MIPR	Army Test and Evaluation Center : Aberdeen Proving Grounds, Maryland	2.558	1.249	Feb 2023	1.546		1.540	Mar 2025	-		1.540	Continuing	Continuing	Continuing
		Subtotal	88.136	11.324		2.653		10.360		-		10.360	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total 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	Feb 2023	1.107		1.200	Feb 2025	-		1.200	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
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Support ($ in Millions)

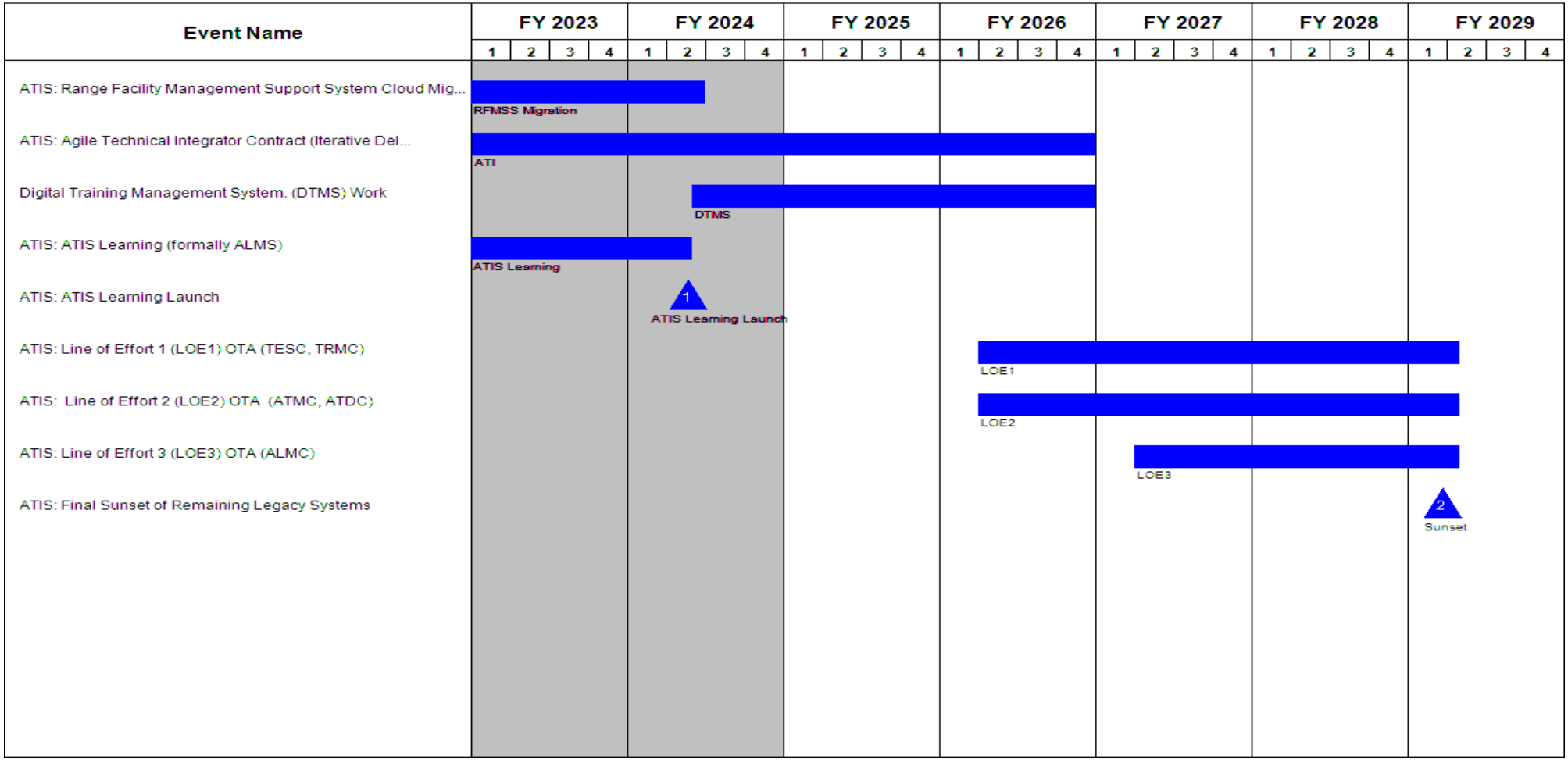
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ATIS Software	C/FFP	ATIS Product Office : Newport News, VA 23606	1.418	1.983	Jun 2023	-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	5.773	3.458		1.107		1.200		-		1.200	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	110.142	26.496		5.993		11.560		-		11.560	Continuing	Continuing	N/A

Remarks

Cost category containing "ATIS" supports the ATIS Product Development.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM8 / *Information Technology for Training Systems*



Note

Will sunset the legacy Army Learning Management System (ALMS) in 1QFY24 and deliver ATIS Learn to the Army community.

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM8 / *Information Technology for Training Systems*

Schedule Details

	Start		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: Range Facility Management Support System Cloud Migration	2	2022	2	2024
ATIS: Agile Technical Integrator Contract (Iterative Delivery of Army Training Management Capability)	1	2023	4	2026
Digital Training Management System. (DTMS) Work	2	2024	4	2026
ATIS: ATIS Learning (formally ALMS)	3	2022	2	2024
ATIS: ATIS Learning Launch	2	2024	2	2024
ATIS: Line of Effort 1 (LOE1) OTA (TESC, TRMC)	2	2026	2	2029
ATIS: Line of Effort 2 (LOE2) OTA (ATMC, ATDC)	2	2026	2	2029
ATIS: Line of Effort 3 (LOE3) OTA (ALMC)	2	2027	2	2029
ATIS: Final Sunset of Remaining Legacy Systems	1	2029	1	2029
ATIS: Enters Capability Support (Full Deployment)	2	2030	2	2030

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) FM9 / *Information Technology for Criminal Investigations*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FM9: *Information Technology for Criminal Investigations*	-	1.227	2.697	3.139	-	3.139	3.103	3.168	3.233	3.298	0.000	19.865
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The project Criminal Investigation Management System (CIMS) is to develop, maintain, and operate a secure, unified comprehensive system of applications to support the Army's law enforcement (LE) mission and to transform the Department of the Army Criminal Investigative Division (DACID) Law Enforcement (LE) applications through continuous innovation and modernization to improve operational methodologies consistent with current LE community practices.

FY 2025 Base dollars in the amount of $3.139 million will enable the continuous effort to increase and modernize the Criminal Investigation Management System (CIMS). Funds will allow the development and support of law enforcement data sharing in the Army Law Enforcement Community of Interest, as well as complying with mandated external sharing initiatives with DoD law enforcement agencies, select Army systems data sources which will be integrated into a single net-centric portal structure.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Criminal Investigative Management System (CIMS)	1.227	2.697	3.139
Description: Criminal Investigative Management System (CIMS). CIMS is a collection of mission essential information technology (IT) systems that supports the DACID, the Office of the Provost Marshal General (OPMG), the U.S. Army Crime Records Center (USACRC), the Army Military Police School (USAMPS), and other DoD Law Enforcement (LE) entities and stakeholders. Through CIMS, the DACID and the OPMG developed an integrated and unified, comprehensive enterprise program / system that houses both classified and unclassified Law Enforcement Sensitive (LES) data, leveraging existing and future Army LE information technology assets and other external data sources, and providing a full range of law enforcement functions. The primary component of CIMS is a comprehensive enterprise system known as the Army Law Enforcement Reporting and Tracking System (ALERTS) providing Army LE stakeholders the enhanced capability to rapidly and efficiently manage a variety of LE and criminal intelligence functions, as well as a broader range of senior executive reporting requirements. Automatic, electronic data transfers between ALERTS and Integrated Personnel and Pay System - Army (IPPS-A) are being established to provide historical, up-to-date information assisting in agent hiring procedures. The Accreditations module of CIMS was developed from a stand-alone to an enterprise application providing access to multiple DACID personnel. The National Incident-Based Reporting System (NIBRS) electronic feed was updated incorporating FBI standards providing accurate DNA and fingerprint data. RDT&E dollars are required to transform ALERTS along with multiple DACID mission systems through software modernization from an Army-centric investigative LE agency into an elite Federal LE agency that is ahead of the threat, continuously evolving and			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM9 / *Information Technology for Criminal Investigations*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
strategically partnering with Federal LE agencies. Strategically partnering requires the creation of multiple interagency data feeds. All requested DACID RDT&E funding in program element 0606013A will be applied to CIMS initiatives. ***FY 2024 Plans:*** ALERTS, the primary component of CIMS, has been online for over 5 years. It requires a major application rewrite which will start in FY 2023 with gathering stakeholder requirements and the development of a more efficient and effective database structure to store case information. Modernization of ALERTS will continue through FY 2024 with a new CIMS development contract. New Law Enforcement (LE) case data procedures to support senior executive reporting requirements will be developed through the CID Director's COMPSTAT program and data feeds between multiple interagency applications including IPPS-A will be developed, configured, and implemented. ***FY 2025 Plans:*** RDT&E dollars are required to continue the code upgrade, continuous development of backlog items, and modernization of ALERTS. The CIMS contract was awarded 12 May 2023 for a 4-year period. With the end of the previous CIMS contract over 100 development items, new or in development stage, remains for development. ALERTS application code is over 10 years old and requires a complete code upgrade. Code modernization is required to meet mandatory DoD and Army infrastructure and security requirements. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding increases by $0.442 million to continue code upgrades and support in establishing DoD internal and external congressionally-mandated law enforcement data transfer initiatives.			
Accomplishments/Planned Programs Subtotals	1.227	2.697	3.139

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OMA - Firm Fix Price: *Labor IT Support Services*	3.832	3.170	6.598	-	6.598	-	-	-	-	0.000	13.600

Remarks

OMA dollars are used for the operations and maintenance of the CIMS environment which includes ensuring the mission applications are operational and available 24 hours, 365 days per year. It includes server patching with the latest security patches, backing up the data, providing customer service through a CIMS Help Desk, creating/deleting user accounts, monitoring the health of the server environment, operating the Army's Law Enforcement (LE) case management system.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM9 / *Information Technology for Criminal Investigations*

D. Acquisition Strategy

DACID 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 new CIMS contract was put in place to continue the development of ALERTS and other CIMS applications.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM9 / *Information Technology for Criminal Investigations*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Criminal Investigative Management System (CIMS)	C/CPFF	ACC-New Jersey : New Jersey	3.236	1.227	Mar 2023	2.697	Feb 2024	3.139	Feb 2025	-		3.139	0.000	10.299	-
		Subtotal	3.236	1.227		2.697		3.139		-		3.139	0.000	10.299	N/A

Remarks

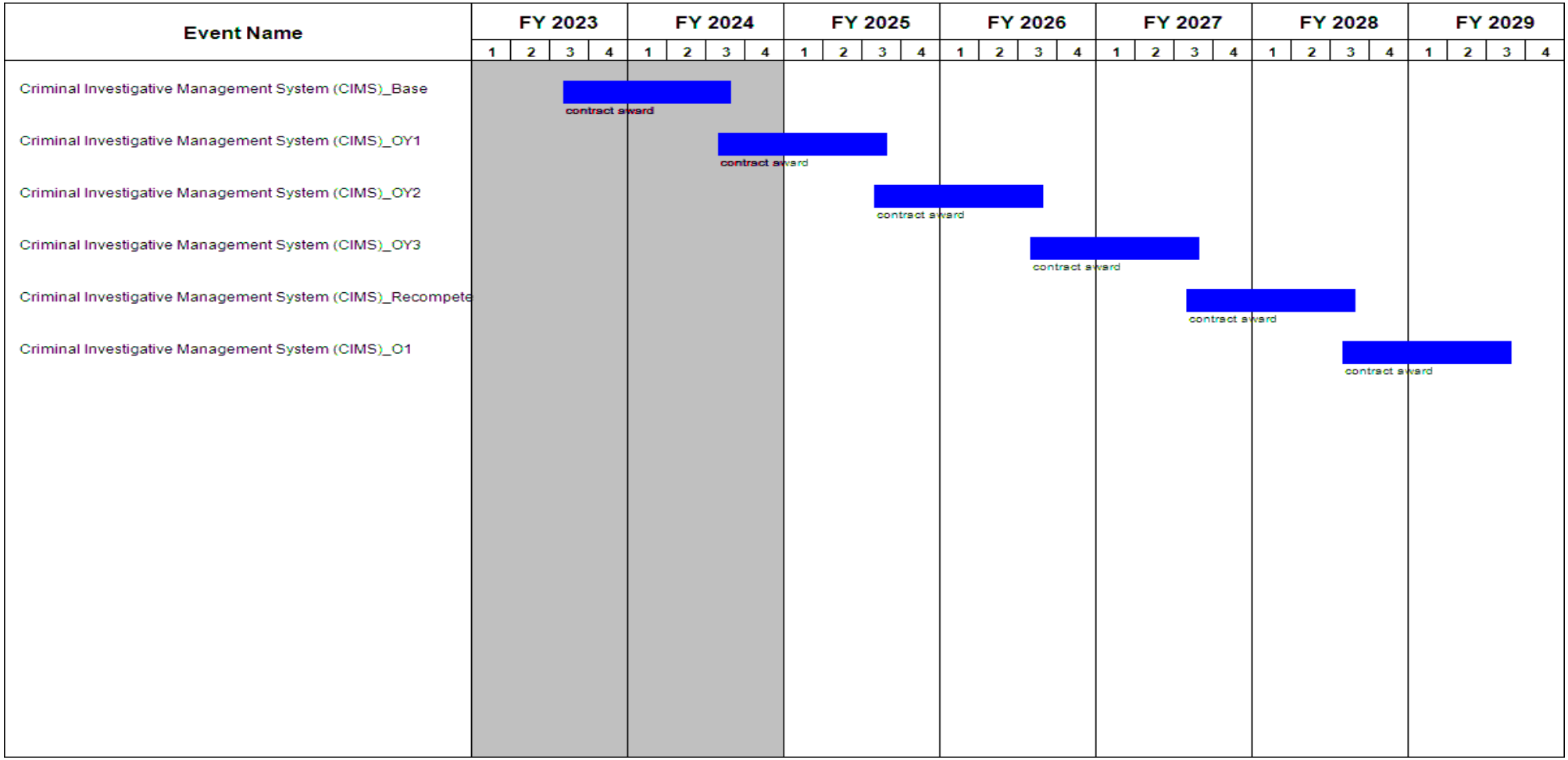
CIMS will continue to establish DoD internal and external congressional mandated law enforcement data transfer initiatives.

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	3.236	1.227		2.697		3.139		-		3.139	0.000	10.299	N/A

Remarks

The FY 2025 funds will enable the modernization of ALERTS, which is the primary component of CIMS. Modernization will continue through FY 2029 with a new CIMS development contract.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM9 / *Information Technology for Criminal Investigations*



Note

There is a new vendor with the base contract starting in FY 2023.

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** FM9 / *Information Technology for Criminal Investigations*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Criminal Investigative Management System (CIMS)_Base	3	2023	3	2024
Criminal Investigative Management System (CIMS)_OY1	3	2024	3	2025
Criminal Investigative Management System (CIMS)_OY2	3	2025	3	2026
Criminal Investigative Management System (CIMS)_OY3	3	2026	3	2027
Criminal Investigative Management System (CIMS)_Recompete	3	2027	3	2028
Criminal Investigative Management System (CIMS)_O1	3	2028	3	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*				Project (Number/Name) T04 / *USMEPCOM TRANSFORMTION - IT MODERNIZATION*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
T04: *USMEPCOM TRANSFORMTION - IT MODERNIZATION*	-	2.140	2.239	2.258	-	2.258	6.129	2.924	2.498	2.498	0.000	20.686
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The United States Military Entrance Processing Command (USMEPCOM) is an Office of the Secretary of Defense (OSD) Field Operating Activity with Army serving as its Executive Agent (EA). USMEPCOM reports to OSD Accession Policy (AP). USMEPCOM is the vital link between recruiting and training America's armed forces. The Command applies established DoD standards during military processing, thereby providing continual military enlistments to the Army, Navy, Air Force, Marines, Coast Guard, and Space Force. USMEPCOM processes applicants for military service through its 65 Military Entrance Processing Stations (MEPS) across the Continental United States (CONUS) as well as Non-Foreign Outside the Continental United States (OCONUS) locations.

USMEPCOM began processing applicants for service in the 1970s using a by-hand paper intensive process. In 1995, USMEPCOM introduced the United States Military Entrance Processing Command Integrated Resource System (USMIRS) 1.0. 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 the support for automated versions of the Armed Services Vocational Aptitude Battery (ASVAB) tests. The system also initiates Social Security Administration (SSA) checks for identity verification, interfaces with US Citizenship & Immigration Services (USCIS) to verify citizenship status, and interfaces with the Federal Bureau of Investigation (FBI) for background screening. The system utilizes digital fingerprints to identify/eliminate individuals with criminal records from entering military service. USMIRS supports recruiting capabilities through electronic interfaces and data sharing, using standard Department of Defense (DoD) data elements with Recruiting Service systems (such as ARISS, AIE, DMDC, and DCSA etc.) 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.

In FY 2021, USMEPCOM launched the USMIRS 1.1 Minimal Viable Product (MVP). The MVP modernizes and expands the core functionality of USMIRS and migrates it to the cloud. The resulting system is automated, scalable, and secure. Further investment in the system is planned through FY 2035 to continue development of additional applications (to include a link to the Military Health System GENESIS (MHS GENESIS)), integrated analytics, predictive analytics (machine learning and power business intelligence), and data quality.

FY 2025 base funding in the amount of $2.258 million 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.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** T04 / *USMEPCOM TRANSFORMTION - IT MODERNIZATION*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: USMIRS Modernization/Digitization	2.140	2.239	2.258
Description: As of March FY 2021, the USMIRS 1.1 Minimum Viable Product (MVP) was launched. This is the core functionality of the system. USMIRS 1.1 is a system that is comprised of multiple sub applications, and those non-core applications will need to be modernized. FY 2022 RDTE supports the further modernization of non-core applications in the USMIRS system of systems such as our testing and order writing applications. ***FY 2024 Plans:*** FY24 BASE funding supports the continual modernization of USMIRS 1.1 core system and supporting applications. These funds ensure that incremental modernization efforts can be completed in order to keep the new system current and secure. ***FY 2025 Plans:*** FY 2025 funding supports the continual modernization of USMIRS 1.1 system of systems. Ensure incremental modernization efforts to keep the new system current and secure. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Minor increase due to economic assumptions			
Accomplishments/Planned Programs Subtotals	2.140	2.239	2.258

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The overall effort of the USMEPCOM IT transformation is to modernize and fully digitize the US Military Entrance Processing Command Integrated Resource System (MIRS). The modernization of the system will minimize vulnerabilities and fully digitize 65 military entrance processing stations resulting in efficiencies to all six uniformed services.

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 FY 2021.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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The efforts in FY 2021 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.

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 FY 2021.
3 - Award contract to develop the USMIRS 1.1 non-core applications (plug ins) in 1Q FY 2021 with work to begin 2Q FY 2021.
4 - FY 2022 and beyond will be to primarily establish the link between various systems (AIE, MHS Genesis Etc).

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) T04 / *USMEPCOM TRANSFORMTION - IT MODERNIZATION*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
USMIRS 1.1 Incremental Updates and Improvements	MIPR	ITility LLC under the GSA VETS 2 Governmentwide Acquisition Contract : 1800 F Street, NW Washington DC 20405	-	2.140	Feb 2023	2.239		2.258		-		2.258	Continuing	Continuing	Continuing
		Subtotal	-	2.140		2.239		2.258		-		2.258	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	2.140		2.239		2.258		-		2.258	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** T04 / *USMEPCOM TRANSFORMTION - IT MODERNIZATION*

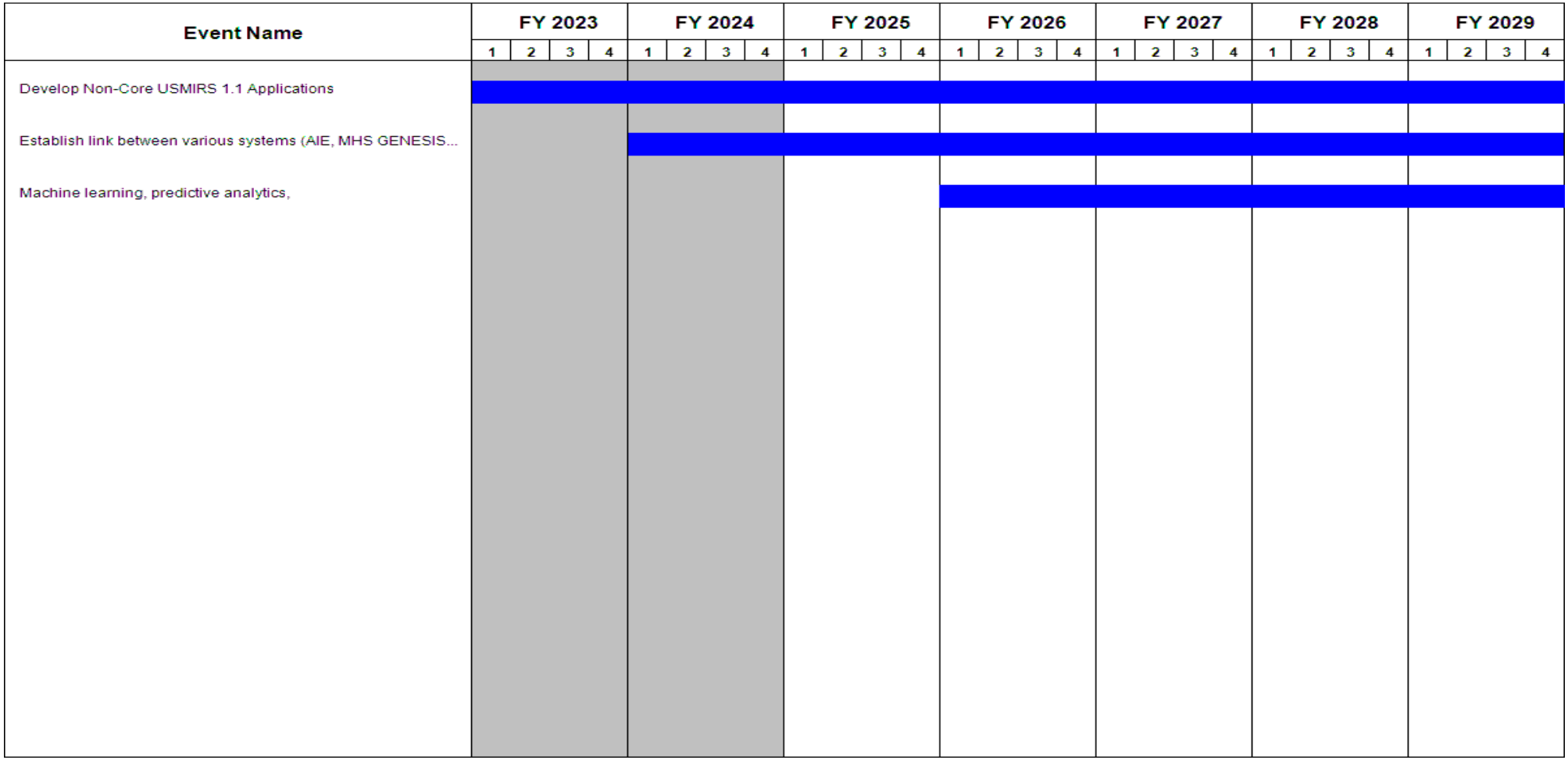

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** T04 / *USMEPCOM TRANSFORMTION - IT MODERNIZATION*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**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 MVP	2	2021	2	2021
Develop Non-Core USMIRS 1.1 Applications	1	2021	4	2030
Establish link between various systems (AIE, MHS GENESIS etc.)	1	2024	4	2029
Machine learning, predictive analytics,	1	2026	4	2030
MIRS 2.0	1	2031	1	2031
Continue to scale system with modern technology and capability	1	2031	4	2033

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*				Project (Number/Name) T05 / *Army Business System Modernization Initiatives*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
T05: *Army Business System Modernization Initiatives*	-	22.195	65.143	77.506	-	77.506	74.789	67.873	73.265	62.822	0.000	443.593
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Army Business System Modernization Initiatives include:

1. Enterprise Business Systems-Convergence (EBS-C): 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 Defense Business Systems (DBS) redundancies and duplications existing in the Army portfolio. In order to achieve the EBS-C mission, the RDT&E in FY 2024 will set the conditions for the innovation required to implement a de-customized Enterprise Resource Program (ERP) solution integrated with an agility layer providing an intuitive user interface with minimal customization reducing long term maintenance costs. The in-scope DBS for this effort includes 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.

FY 2025 Base dollars in the amount of $58.239 million will enable the development of the EBS-C solution and the establishment of the Continuous Integration and Continuous Delivery (CI/CD) pipeline. The development will leverage the prototypes developed in FY 2024 as part of the risk reduction activities to lay the foundation for the deployable EBS-C solution in FedRAMP compliant government provided cloud environments utilizing proven agile methodology.

2. Global Force Information Management (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 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 GFIM components will provide the Army with a functional and integrated transactional platform that creates and develops the requisite force

structure, deployment, redeployment, retrograde, and readiness data needed to man, equip, train, ready, and resource the force and feed the Army's ERPs and Non-ERPs in support of multi-domain operations. 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.

FY 2025 Base dollars in the amount of $12.024 million will be used to continue development of the GFIM Objective Environment (OE) to provide an automated global force management solution for the Army's Deploy to Redeploy and Retrograde (D2RR) business process. Activities include development and initial deployment of the Provide the Current Force (PCF) capability as well as further enhancements to the Develop the Future Force (DFF) Minimum Viable Capability Release (MVCR) that is projected to deploy at the end of FY 2024. These capabilities will deliver an enterprise solution that will more efficiently and effectively align and prepare forces and infrastructure, conduct mobilization, deployment, and employment activities, as well as re-deployment and demobilization activities. The program is utilizing the Scaled Agile Framework (SAFe) development methodology enabling incremental release of capability to the user community.

3. Installations, Energy, and the Environment (IEE) EBS BUILDER and PAVER DoD requires a standardized, auditable, process for facility condition assessments and the calculation of deferred maintenance. The DoD uses the Sustainment Management System (SMS) to conduct real property condition assessments, identify work requirements, and report on real property asset conditions. SMS provides a consistent baseline for condition assessment of all assets across DoD. This effort develops interfaces with EBS-C within the Army's Enterprise Business System Multi-Functional Capabilities Team (EBS-MFCT) for IEE domain related to construction and real property. This effort develops and integrates modules for buildings (BUILDER) and pavement (PAVER) to modernize and consolidate these modules so that installations can manage all assets in a single enterprise system called Enterprise SMS (ESMS).

The Enterprise Sustainment Management System (ESMS) Web Application is a cloud-based solution, bringing all real property infrastructure domains under the umbrella of a single SMS application. Performing long-range work requirements projections across all SMS domains allows for a comprehensive analysis of various courses of action and the related effects and tradeoffs of each decision. In addition to the incorporation of all SMS domains in a single application. The ESMS application provides increased control of user permission definition, teaming, and how permissions me applied; updated business intelligence reporting capabilities; and improved user experience, leveraging state of the art web development techniques for more efficient use from beginning to end. ESMS helps all real property asset management stakeholders - from civil engineers, technicians and managers to headquarters - decide when, where and how to best maintain existing infrastructure. Because assets are so vast and diverse, a "knowledge-based" philosophy drives the SMS process.

FY 2025 Base dollars in the amount of $3.285 million will continue development of ESMS to optimize assessments for Pavement, Utilities, Rails, and other facility types.

4. 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. It 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 has configured 14 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.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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FY 2025 Base dollars in the amount of $3.006 million will continue effort(s) with ADVANA to mitigate risk with enterprise data platform migration, pilot an open architecture universal data connection adapter to broker data with legacy systems, and further support the Army CIOs Application Programming Interface (API) layer enabling the enterprise data mesh construct.

5. Army Energy and Water Reporting System (AEWRS) is used to collect rollups of energy/water usage and program management at Army installations. AEWRS is the Army's official database of record for all energy and water usage data, and energy program management information. It provides the basis for documenting Army progress in meeting statutory and mandated performance metrics. Data is passed other systems and to DOD to be joined by similar energy and water data from the other services. AEWRS incorporated as a module the Solid Waste Annual Reporting for the Web (SWARWeb) which is the Army's official database of record for solid waste management and recycling data at the Installation, Subordinate Command, Major Command, Region and Army levels. Data is collected for disposal sites, disposal and recycling transactions, recycling revenues and recycling program management. Solid waste data collected throughout the fiscal year is submitted to higher command levels to fulfill reporting requirements and to track compliance with DoD waste reduction/recycling goals.

FY 2025 Base dollars in the amount of $0.952 million will continue to modernize application software for the AEWRS from earlier software to improve its risk management posture, as well as providing additional mandated reporting capabilities required by revised statutes and federal/DoD policies.

6. The Enterprise Exceptional Family Member Program (E-EFMP) System streamlines enrollment, provides transparency, and synchronizes assignment coordination and Family support access, as the official EFMP system of record. E-EFMP supports Active Duty, Guard, and Reserve Soldiers. E-EFMP supports integration of data for the Office of the Surgeon General (OTSG), Medical Command (MEDCOM), Human Resource Command (HRC), Installation Management Command (IMCOM), and connects to Defense Enrollment Eligibility Reporting System (DEERS) and Integrated Personnel and Pay System - Army (IPPS-A).

This subline has no funding after FY 2024.

7. 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. In support of Army Resource Cloud/cPROBE, onboarded partners to consolidate hosting, enterprise licenses, Risk Management Framework and reduce overall Information Technology costs.

This subline has no funding after FY 2023.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Enterprise Business Systems -Convergence	-	41.931	58.239
Description: SAP announced that SAP would be moving to the next generation software, S4/HANA, as a replacement of the current software, ECC. 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.			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** T05 / *Army Business System Modernization Initiatives*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
The in-scope Defense Business Systems (DBS) for this effort include GFEBS and GFEBS-SA, LMP, GCSS-Army, AESIP Hub, and numerous non-ERP systems performing needed logistics and financial functions. 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. ***FY 2024 Plans:*** RDT&E funding in FY24 to support EBS-C will provide analysis and prototype(s) demonstrating key Audit, Finance and Logistics capabilities, application and technical architecture to support the next phases of the ERP modernization. In support of this, government Program Management plan, Systems Engineering and Technical Assistance (SETA) contractors will be needed to plan for and manage the initiation of the EBS-C implementation effort. A cloud prototype(s) environment(s) will be established to support the development of modernized finance and logistics capabilities in compliance with Impact Level 4 (IL4) and Impact Level 6 (IL6) requirements. In addition, the EBS-C team will establish a Lean Agile Center of Excellence (LACE) to prepare for rapid capability development providing capability to the warfighter through Continuous Integration and Continuous Deployment (CI/CD). The LACE will create the agile oversight and methodology to integrate with the TIP's agile development approach at the end of FY24. Product and Software Development: $23.8M Description: Product and Software Development and prototyping includes all efforts related to the technical integration provider's labor costs for developing Minimum Viable Products (MVPs) of the ERP Modernized solution in the IL4 and IL6 cloud hosted environment. The vendors will demonstrate their solution through various knowledge points to Army SMEs and leadership while maintaining high levels of cybersecurity posture to set the foundation for Initial Authority to Test (IATT) and Authority to Operate (ATO). Program Support: $15.1M Description: Program support includes program operations, acquisition support, system engineering, technical management, agile implementation support and test management for the ERP Modernized solution. Costs include government management, contractor support, travel and facilities. Cloud Support Development $3.0M Description: Cloud support includes all costs related to cloud support provider (CSP), managed services provider (MSP), remote			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
access for vendors, in support of Impact Level 4 and Impact Level 6 environments. Environments will include sandbox and development for the vendors conducting the prototypes for ERP Modernization. ***FY 2025 Plans:*** Acquisition Activities = $7.999 million Acquisition activities for this BCAT Level 1 program continue the transition to the Software Acquisition Pathway which is planned for in FY 2024. The acquisition activities ensure the development of key acquisition pathway documentation in support of milestones and leadership execution checkpoints. In addition, the creation and support of multiple support contract awards for various technical support services, Agile implementation support, and software licensing agreements. Other key business management functions to include lifecycle cost estimating, program office estimates and year of execution management and support. Costs include contractor engineering with a modicum of inherently governmental oversight, software support and travel. Product and Software Development = $49.140 million Product and Software Development enables the development of EBS-C's Minimum Viable Capability Release (MVCR) and the establishment of the Continuous Integration and Continuous Deployment (CI/CD) pipeline to be completed in FY 2025. The Technical Integration Provider (TIP) contracts will leverage the prototypes developed in FY 2024 as part of the risk reduction activities to lay the foundation for the deployable EBS-C solution in FedRAMP compliant government provided cloud environments utilizing proven agile methodology. More specifically, the TIP will expand their agile team footprint to develop capability across at least 10 agile development teams and supporting cross functional teams. We anticipate multiple agile release trains to develop and deploy capability on a rapid cadence to include external testing, user validation, and cyber assurance. Additionally, develop User Interface and User Experience capability to minimize training requirements and enable a bridging solution between existing ERP capability and EBS-C limiting the impact to current operations. Finally, develop and deploy training materials and receive the first continuous Authority to Operate. Output will include the Army's ability to improve ammunition management, the ability to deliver munitions and supplies to the point of need, and rapidly relocate those issue points due to the threat environment. Test = $1.100 million External government testing and internal Audit and Security Compliance in support of developmental and operational test activities for deployment of minimum viable capability release. In accordance with the emerging test requirements/strategy, the Operation Test Agencies (OTA) and Joint Interoperability Test Command (JITC) will embed evaluators with the PMO team to support system evaluation. This will reduce the cost and scope of test and eliminate the need for a dedicated operation test. Developmental Test, (DT), Operational Test, (OT), and Audit compliance will be pulled left into agile sprint planning and execution activities to collect data earlier to support the Agile development timeline. ***FY 2024 to FY 2025 Increase/Decrease Statement:***			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 funding increases $16.308 million due to the ramp up of development teams from three small agile prototyping agile teams to up to ten agile development teams focused on developing and deploying the Minimum Viable Capability Release.			
Title: Global Force Information Management	20.960	17.075	12.024
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 for a Phase 1 Minimum Viable Product (MVP) (Develop the Future Force) and Phase 2 prototype (Provide the Current Force) activities. The OTA will also establish an IL5 and IL6 cloud environment and integrate with the other two components of the GFIM Objective Environment (OE) (D2RR Data Lake and Analytical Tool) to ensure an integrated and inter-operable environment is delivered and the Army can sunset legacy systems. ***FY 2024 Plans:*** GFIM will use FY24 RDTE funding to award a FAR-based Production Contract in coordination with Army Contracting Command - Rock Island, IL (ACC-RI). The contract is scheduled to be awarded in Q1FY24. The FY24 RDTE funding will be used to complete development of the DFF and PCF MVPs from the 70% solution to 100% solution. The capabilities will be architected to reside in the established cArmy hosting environment. The vendor, in coordination with the PMO and functional sponsor, will also develop the GFIM training plan and training materials (virtual, embedded, and targeted fielding materials). These capabilities provide the Army with a fully functional, integrated, interoperable transactional platform that creates and develops the requisite force structure, deployment, redeployment, retrograde, and readiness data needed to man, equip, train, ready, and resource the force and feed the Army's Enterprise Resource Planning (ERPs) and Non-ERPs in support of multi-domain operations. Development during FY24 will position the Army to sunset the 14 legacy systems being replaced by GFIM. ***FY 2025 Plans:*** FY 2025 funding will be used to continue development of the GFIM Objective Environment (OE) to provide an automated global force management solution for the Army's Deploy to Redeploy and Retrograde (D2RR) business process. Activities include development and initial deployment of the Provide the Current Force (PCF) capability as well as bring the Define the Future Force (DFF) Minimum Viable Capability Release (MVCR) to a production ready and deployable state in the third quarter of FY 2025. These capabilities will deliver an enterprise solution that will more efficiently and effectively align and prepare forces and infrastructure, conduct mobilization, deployment, and employment activities, as well as re-deployment and demobilization activities. The program is utilizing the Scaled Agile Framework (SAFe) development methodology enabling incremental release			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
of capability to the user community. We will continue to deliver capability in alignment with Army goals for future sunset of legacy Force Management systems, target first quarter FY 2027. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 RDT&E funding decreases $5.051 million as a result of transitioning 25% of agile team costs from RDT&E-funded to OMA-funded. This aligns to the distribution of work in FY 2025 between new development and capability support for the MVCR deployed in FY 2024.			
Title: IEE EBS BUILDER and PAVER ***Description:*** In FY 2025, this effort develops and integrates domains within a single enterprise system called Enterprise Sustainment Maintenance System (ESMS) to conduct condition and functionality assessment for all facilities, including for buildings (BUILDER) and pavement (PAVER). This effort also develops interfaces related to construction and maintenance of real property with the Enterprise Business Systems-Convergence (EBS-C) within the Army's Enterprise Business System Multi-Functional Capabilities Team (EBS-MFCT) for Installations, Energy, and the Environment (IEE) domain. ***FY 2024 Plans:*** Continued development of ESMS to integrate data, models, work planning, and analysis tools from BUILDER and PAVER. Further develop the Application Programming Interface (API). This work is critical to make ESMS data available to EBS-C and other enterprise systems in support of DoD and Army readiness assessment and prioritization of sustainment resources across the Department and Service. ***FY 2025 Plans:*** Continue development of ESMS to optimize assessments for Pavement, Utilities, Rails, and other facility types. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding increases $1.138 million to support development efforts for advanced assessment and data collection sources such as camera system and other sensor technologies.	0.453	2.147	3.285
Title: Army Vantage ***Description:*** Description: 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. It 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 has configured 14 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.	-	3.013	3.006

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: FY24 RDTE will be used to continue effort(s) with ADVANA to mitigate risk with enterprise data platform migration. Pilot an open architecture universal data connection adapter to broker data with legacy systems. Further support the Army CIOs API layer enabling the enterprise data mesh construct. ***FY 2025 Plans:*** FY 2025 funding will be used to continue effort(s) with ADVANA to mitigate risk with enterprise data platform migration, pilot an open architecture universal data connection adapter to broker data with legacy systems, and further support the Army CIOs API layer enabling the enterprise data mesh construct. The features and advantages of the platform allow the Army to (1) see itself clearly through its authoritative data, (2) meet its strategic modernization objectives, and (3) rapidly realize ROI through data transparency, data sharing through the Vantage Common Data Platform, and allowing for a consistent and unified analytical tool set for the Army enterprise. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease in funding reflects planned lifecycle of the effort.			
Title: IEE EBS FOR FACILITY & ENERGY SYSTEMS (AWERS AND SWARWeb)	0.292	0.405	0.952
Description: Update application software for the Army Energy and Water Reporting System (AEWRS). AEWRS is the Army's official database of record for all energy and water usage data, energy program management information, and solid waste management/recycling program information. AEWRS provides the basis for documenting and reporting Army progress in meeting statutory and mandated performance metrics for the active Army, National Guard, Reserves at the Installation, Subordinate Command, Major Command, Region, Headquarters, and supporting organization levels. Army data is reported to DoD to be joined with similar reporting from other services and reporting agencies. AEWRS incorporated as a module the Solid Waste Annual Reporting for the Web (SWARWeb) system which was decommissioned. Funding is required to modernize application software and update/expand data collection as required by revised statutes and federal/DoD policies. ***FY 2024 Plans:*** In FY24 RDTE funds will be used to modernize application software for the Army Energy and Water Reporting System (AEWRS) from the earlier software to improve its risk management posture, as well as providing additional of mandated reporting capabilities required by revised statutes and federal/DoD policies. AEWRS is the Army's official database of record for all energy and water usage data, and energy program management information. AEWRS incorporated as a module the Solid Waste Annual Reporting for the Web (SWARWeb) system which was decommissioned. ***FY 2025 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** T05 / *Army Business System Modernization Initiatives*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 funds will continue to modernize application software for the AEWRS from earlier software to improve its risk management posture, as well as providing additional mandated reporting capabilities required by revised statutes and federal/DoD policies. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding increases $0.547 million due to acceleration of development efforts as program acquisition progresses.			
Title: Army Business System Modernization Initiatives ***Description:*** The Enterprise Exceptional Family Member Program (E-EFMP) System streamlines enrollment, provides transparency, and synchronizes assignment coordination and Family support access, as the official EFMP system of record. E-EFMP supports Active Duty, Guard, and Reserve Soldiers. E-EFMP supports integration of data for the Office of the Surgeon General (OTSG), Medical Command (MEDCOM), Human Resource Command (HRC), Installation Management Command (IMCOM), and connects to Defense Enrollment Eligibility Reporting System (DEERS) and Integrated Personnel and Pay System - Army (IPPS-A). ***FY 2024 Plans:*** Continue to fund new and existing Army Business System Modernization Initiatives. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease due to completion of planned efforts for Enterprise Exceptional Family Member Program (E-EFMP) System.	-	0.572	-
Title: IEE EBS SYSTEM CONSOLIDATION ***Description:*** Development of interface of legacy DBS systems with Enterprise Resource Planning (ERP) modernization efforts.	0.470	-	-
Title: Enterprise Resource Planning (ERP) Modernization ***Description:*** The Army created the EBS-C initiative as a strategic direction 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. In-scope DBS for this effort include GFEBS and GFEBS-SA, LMP, GCSS-Army, AESIP Hub, and numerous non-ERP systems performing needed logistics and financial functions.	0.020	-	-
Accomplishments/Planned Programs Subtotals	22.195	65.143	77.506

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** T05 / *Army Business System Modernization Initiatives*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OMA - 438001000: *EBS-C*	-	70.254	54.859	-	54.859	55.498	67.996	109.587	124.715	0.000	482.909
• OMA - 121018000: *Vantage*	93.632	-	60.694	-	60.694	60.084	58.235	57.311	57.710	0.000	387.666

Remarks

D. Acquisition Strategy

EBS-C is transitioning to the Planning Phase of the Software Acquisition Pathway under DoD Instruction 5000.87 in early FY 2024, supported by an Other Transaction Authority (OTA) prototyping effort. The Planning Phase will prepare the team for moving into the Execution Phase and subsequent delivery of capability within 12 months. 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 was executed in late FY 2023 with a final vendor selection to be complete by the end of FY 2024. Additional prototyping and production contract awards in late FY 2024 enable the development of the EBS-C solution with a planned MVCR no later than end of FY 2025. Additionally, EBS-C is developing a production contract for the establishment and maintenance of the Continuous Integration / Continuous Deployment capability pipeline rapidly deploying capability to the cloud-solution in the cArmy infrastructure.

GFIM has been designated a Defense Business System Category II program, adhering to DoDI 5000.75, the DoD policy governing acquisition of Defense Business Systems. The PMO is in the process of transitioning from the 5000.75 pathway to the 5000.87 Software Acquisition Pathway, which will align better with the use of COTS software and the Agile development methodology the PMO has implemented. The GFIM PMO utilizes an OTA vehicle for development of the GFIM Prototypes and Minimum Viable Capability Release (MVCR) through Q2 FY 2025. GFIM will provide the Army an enterprise, integrated authoritative force management capability for lifecycle management of force/organizational structure data for the total force. In addition, it will establish a common data standard for force structure data by implementing the Global Force Management - Data Initiative (GFM-DI).

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, FY 2025 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 Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) T05 / *Army Business System Modernization Initiatives*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Enterprise Business Systems Convergence (EBS-C)	C/TBD	TBD : TBD	-	-		41.931		58.239		-		58.239	0.000	100.170	-
Global Force Information Management	Option/ CPAF	CACI : Chantilly, VA	25.349	20.960	Aug 2023	17.075		12.024		-		12.024	Continuing	Continuing	Continuing
IEE EBS BUILDER and PAVER	C/TBD	USACE : Vicksburg, MS	-	0.453	Mar 2023	2.147		3.285		-		3.285	0.000	5.885	-
VANTAGE	C/TBD	TBD : TBD	-	-		3.013		3.006		-		3.006	0.000	6.019	-
IEE EBS FOR FACILITY & ENERGY SYSTEMS (AEWRS AND SWARWeb)	C/TBD	USACE : Huntsville, AL	-	0.292	Jun 2023	0.405		0.952		-		0.952	0.000	1.649	-
Army Business System Modernization Initiatives	TBD	To Be Determined : To Be Determined	40.111	-		0.572		-		-		-	Continuing	Continuing	-
IEE EBS SYSTEM CONSOLIDATION	C/Various	IEE EBS SYSTEM CONSOLIDATION : TBD	-	0.470	May 2023	-		-		-		-	0.000	0.470	-
ERP Modernization	C/TBD	TBD : TBD	-	0.020	Sep 2023	-		-		-		-	0.000	0.020	-
		Subtotal	65.460	22.195		65.143		77.506		-		77.506	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	65.460	22.195		65.143		77.506		-		77.506	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** T05 / *Army Business System Modernization Initiatives*

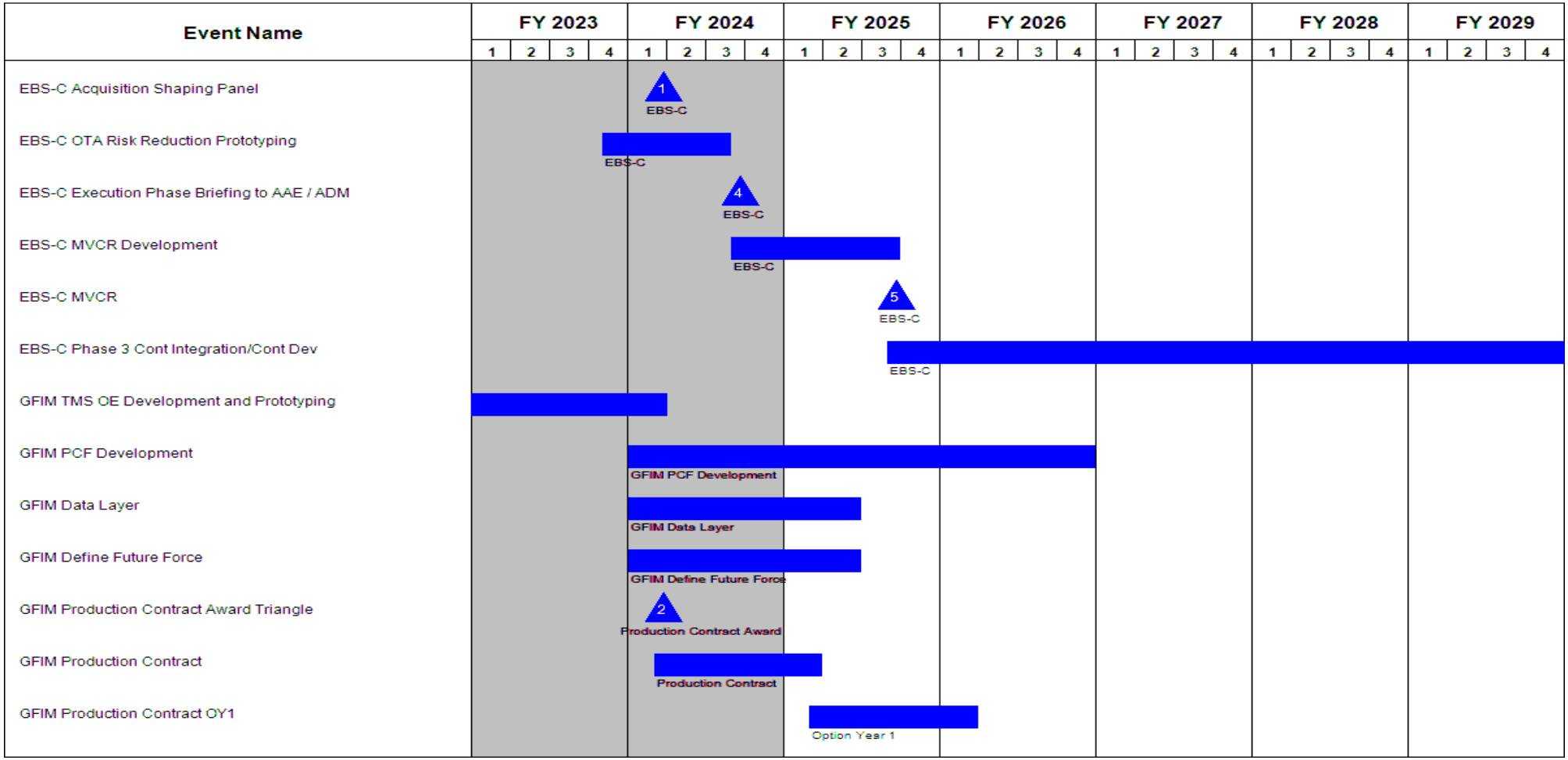


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** T05 / *Army Business System Modernization Initiatives*

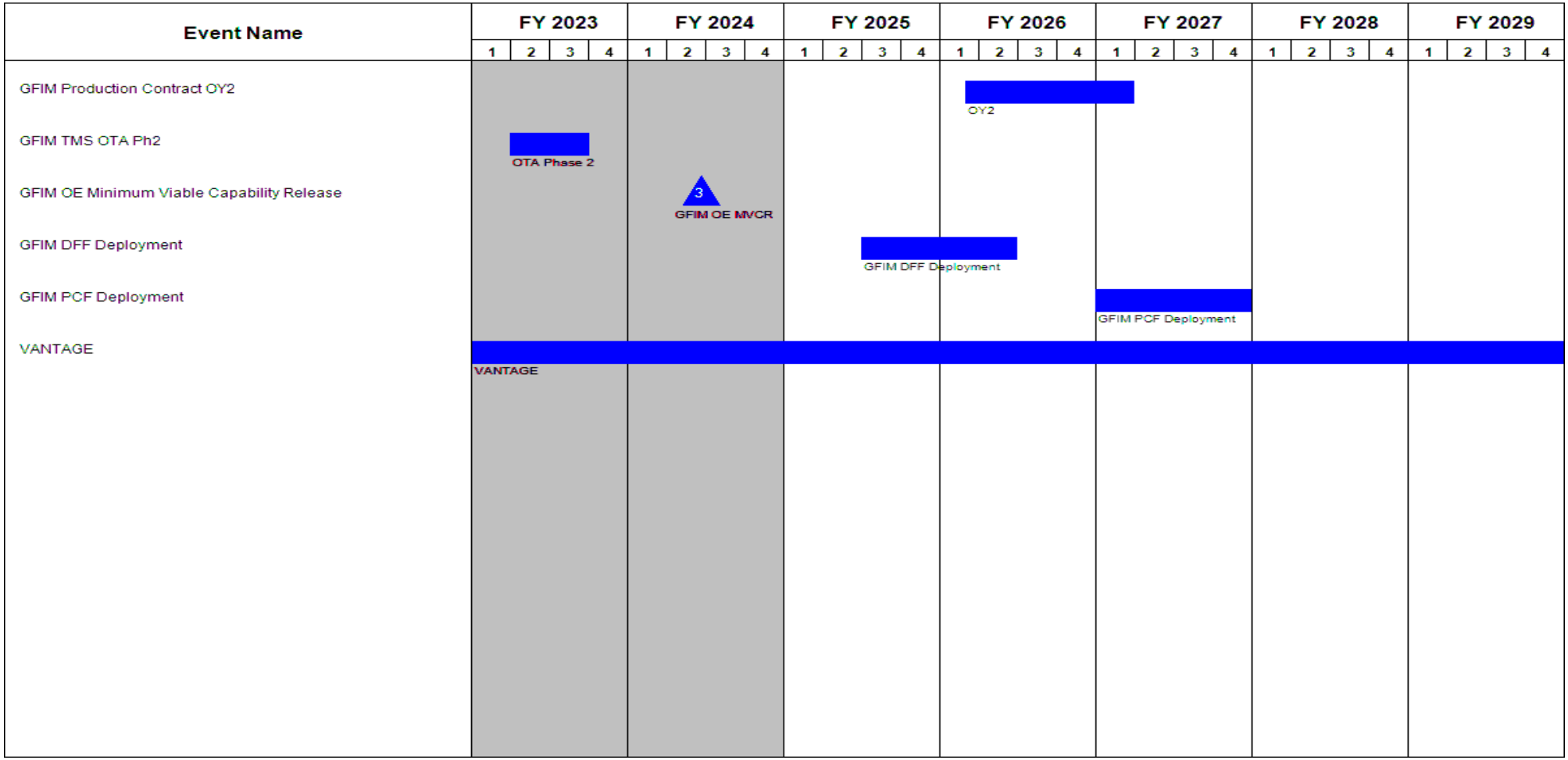


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** T05 / *Army Business System Modernization Initiatives*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
EBS-C Acquisition Shaping Panel	1	2024	1	2024
EBS-C OTA Risk Reduction Prototyping	4	2023	3	2024
EBS-C Execution Phase Briefing to AAE / ADM	3	2024	3	2024
EBS-C MVCR Development	3	2024	3	2025
EBS-C MVCR	3	2025	3	2025
EBS-C Phase 3 Cont Integration/Cont Dev	3	2025	4	2032
GFIM TMS OE Development and Prototyping	2	2019	1	2024
GFIM Transactional Mainagement System (TMS) OTA	1	2022	4	2022
GFIM TMS OTA Ph1	1	2022	4	2022
GFIM PCF Development	1	2024	4	2026
GFIM Data Layer	1	2024	2	2025
GFIM Define Future Force	1	2024	2	2025
GFIM Production Contract Award Triangle	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	1	2023	3	2023
GFIM OE Minimum Viable Capability Release	2	2024	2	2024
GFIM DFF Deployment	3	2025	2	2026
GFIM PCF Deployment	1	2027	4	2027
VANTAGE	1	2018	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) VR3 / *ASMIS-R (REPORTIT)*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
VR3: *ASMIS-R (REPORTIT)*	-	3.219	3.270	3.170	-	3.170	3.202	3.234	3.298	3.372	0.000	22.765
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Project was renamed from Army Safety Management Information System - Revised (ASMIS-R) to Army Safety Management Information System 2.0.

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 Assistant Secretary of the Army - Installations, Energy and Environment strategic guidance. ASMIS 2.0 provides support for the six key Army SOH capabilities: (1) Mishap and Near Miss Investigations and Reporting, (2) Safety Assessments and Inspections, (3) Hazard Management, (4) SOH Program Management, (5) SOH Training and Education, and (6) Occupational Health/Medical Surveillance.

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.

FY 2025 Base dollars of $3.170 million will fund option year 1 of a base plus 4-year contract. The funding will provide for the development of the Occupational Health/ Medical Surveillance module.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: ASMIS-R Development	3.219	3.270	3.170
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			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** VR3 / *ASMIS-R (REPORTIT)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
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. ***FY 2024 Plans:*** In FY24 the SOH Training & Education capability will be fielded for Army-wide use. This module will enable safety professionals and supervisors to effectively execute and track SOH training based on individual job analyses and needs. ***FY 2025 Plans:*** In FY 2025, the Occupational Health/Medical Surveillance module will be developed. This module will provide the Army with the ability to holistically track the medical care, lost work time, and workers' compensation activities and associated cost incurred as the result of an injury or occupational illness. This will fill the gaps that exist in Army Safety and Occupational Health and allow effective tracking through the entire lifecycle of an injury or occupational illness. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decreased by $0.100 million due to reduced level of effort.			
Accomplishments/Planned Programs Subtotals	3.219	3.270	3.170

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

ASMIS 2.0 is comprised of five distinct capabilities, as outlined on the previous page, and each of these is being developed incrementally with a strategic sequencing that enables the primary data collection modules to be completed first with the risk analysis and program management modules executed subsequently.

The acquisition strategy employed executed separate contracts for the construction of the first three modules, with a distinct deployment phase concluding the last two. With the maturity of the fielded capabilities in support of the first three, a multi-year contract was issued for the sustainment and operation of the first three modules and the development and deployment of the latter two. This contract completed the Second and Final Option Year in May 2023.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** VR3 / *ASMIS-R (REPORTIT)*

In FY 2024, the USACRC will execute a five-year (Base plus 4 options) contract to complete all remaining incremental development, deploy new capabilities and enhancements, and sustain the new cArmy cloud environment in support of ASMIS 2.0. FY 2024 is for the development of the 5th module, Safety & Occupational Health Training, conducting Business Process Reengineering session for module 6 (Occupational Health/Medical Surveillance) and an additional requirement, Recommendation Tracking for module 1 (Mishap and Near Miss Investigations and Reporting).

FY 2025 is for the development of the Occupational Health/Medical Surveillance module.

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

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / *Information Technology Development*	Project (Number/Name) VR3 / *ASMIS-R (REPORTIT)*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ASMIS 2.0	MIPR	DLA : Fort Belvoir, VA	1.109	2.878	May 2023	-		3.170	May 2025	-		3.170	0.000	7.157	-
		Subtotal	1.109	2.878		-		3.170		-		3.170	0.000	7.157	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ASMIS 2.0	MIPR	DLA : Fort Belvoir, VA	12.360	0.341	May 2023	3.270		-		-		-	Continuing	Continuing	Continuing
		Subtotal	12.360	0.341		3.270		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	13.469	3.219		3.270		3.170		-		3.170	Continuing	Continuing	N/A

Remarks

FY 2024 funding of $3.270 million was mistakenly listed in Support when it was Product Development.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** VR3 / *ASMIS-R (REPORTIT)*

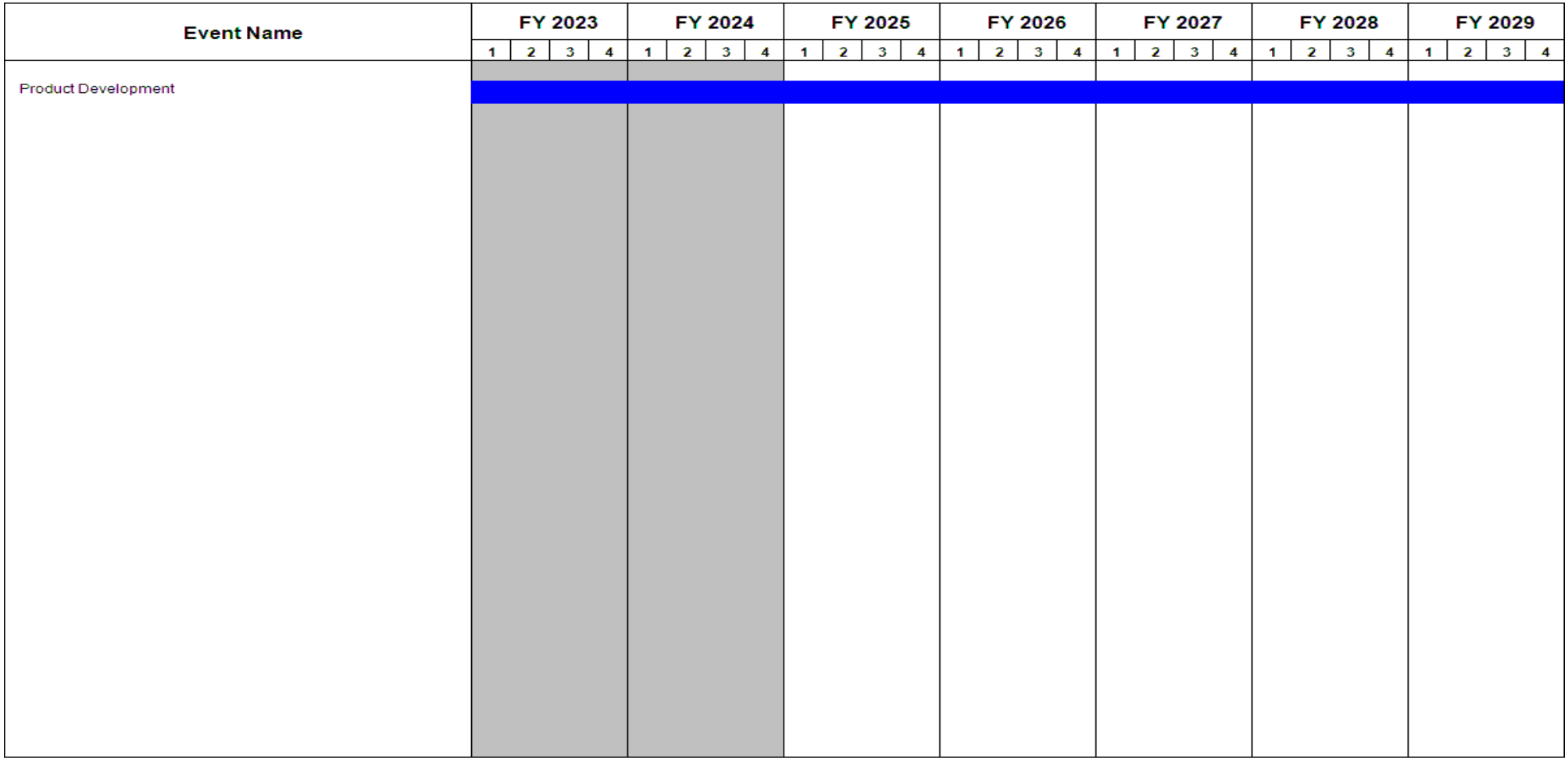


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** VR3 / *ASMIS-R (REPORTIT)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Product Development	3	2018	4	2029

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & 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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	65.055	102.084	126.354	-	126.354	66.866	73.600	38.050	48.023	Continuing	Continuing
ED9: *Integrated Personnel and Pay System - Army Inc 2*	-	65.055	102.084	126.354	-	126.354	66.866	73.600	38.050	48.023	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.

The program has transitioned from waterfall development to agile development for the delivery of capabilities. In accordance with the Acquisition Strategy approved by the Army Acquisition Executive on 21 June 2022, the next major software capabilities are Army Military Payroll, additional Human Resource (HR) Capabilities (eg. Archiving, Talent and Strength Management, and Audit), and HR Enhancements to the deployed baseline. Starting in 3QFY24, IPPS-A will start migration from the legacy infrastructure hosting solution with Defense Information Systems Agency (DISA) to a Cloud Hosting solution.

FY 2025 Base dollars in the amount of $126.354 million supports agile design and development for the Army Military Payroll solution, agile design and development for additional HR Capabilities. These funds will continue the re-platforming (nonrecurring engineering) of PeopleSoft software to allow migration to the Cloud as the legacy DISA infrastructure approaches end of life. Funds support Identity, Credential, Access Management (ICAM) development, and implementation.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	67.519	102.084	95.129	-	95.129
Current President's Budget	65.055	102.084	126.354	-	126.354
Total Adjustments	-2.464	0.000	31.225	-	31.225
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.001	-			
• SBIR/STTR Transfer	-2.465	-			
• Adjustments to Budget Years	-	-	31.225	-	31.225

Change Summary Explanation

Increased funding is due to new agile design, development, and integration to include migration from DISA to Cloud Hosting and associated parallel hosting costs.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	Project (Number/Name) ED9 / *Integrated Personnel and Pay System - Army Inc 2*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
ED9: *Integrated Personnel and Pay System - Army Inc 2*	-	65.055	102.084	126.354	-	126.354	66.866	73.600	38.050	48.023	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.

The program has transitioned from waterfall development to agile development for the delivery of capabilities. In accordance with the Acquisition Strategy approved by the Army Acquisition Executive on 21 June 2022, the next major software capabilities are Army Military Payroll, Additional Human Resource (HR) Capabilities (eg. Archiving, Talent and Strength Management, and Audit), and HR Enhancements to the deployed baseline. Starting in 3QFY24, IPPS-A will start migration from the legacy infrastructure hosting solution with DISA to a Cloud Hosting solution.

FY 2025 Base dollars in the amount of $126.354 million supports agile design and development for the Army Military Payroll (AMP) solution, agile design and development for Additional HR Capabilities. These funds will continue the re-platforming (nonrecurring engineering) of PeopleSoft software to allow migration to the Cloud as the legacy DISA infrastructure approaches end of life. Funds support Identity, Credential, Access Management (ICAM) development and implementation.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Acquisition and Technical Support Services	1.214	1.291	-
Description: Provides acquisition support services and technical support for cybersecurity and infrastructure management. Includes contractor Program Management Support and PMO Change Management Travel.			
FY 2024 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	**Project (Number/Name)** ED9 / *Integrated Personnel and Pay System - Army Inc 2*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
The FY23 RDT&E funding provides acquisition support services and technical support for cybersecurity and infrastructure management. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 decreases $1.291 million to accommodate IPPS-A's restructuring for agile development and reassignment of contractor support to Technical Services.			
Title: Technical Services ***Description:*** Provides technical and program management contractor services providing systems engineering including business process design, enterprise architecture management, data management, interface management, testing, cybersecurity, infrastructure management, audit support, training and deployment support. Includes Software Product Level SME Consulting Support and Technical Services. ***FY 2024 Plans:*** The FY23 RDT&E funding provides technical and program management contractor services providing systems engineering including business process design, enterprise architecture management, data management, interface management, testing, cybersecurity, infrastructure management, audit support, training and deployment support. ***FY 2025 Plans:*** FY 2025 funding provides technical and program management contractor services providing systems engineering including business process design, enterprise architecture management, data management, interface management, testing, cybersecurity, infrastructure management, audit support, training and deployment support. Also, Acquisition and Technical Support Services have moved to Technical Services as part of IPPS-A restructuring for agile development. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increases $1.915 million to support the transition of Acquisition and Technical Service contractor support above to Technical Services contractor support for multiple agile developments, and deployment workstreams.	15.272	15.992	17.907
Title: Design, Development and Integration ***Description:*** Funds the design, development, integration, and deployment of Human Resource, Army Military Payroll, Capability Support, and future capabilities for 1.1 million Soldiers across all Army Components. ***FY 2024 Plans:***	39.921	64.898	54.290

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	**Project (Number/Name)** ED9 / *Integrated Personnel and Pay System - Army Inc 2*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
The FY24 RDT&E funding supports continued technical analysis and provides funding for a competitive contract award to begin iterative design and build for the Military Payroll and other future capabilities. In addition, the funding will support software enhancements for the Human Resource capabilities. ***FY 2025 Plans:*** FY 2025 funding supports continued technical analysis and provides funding for Agile contract support to continue iterative design and build for the Army Military Payroll, Additional HR Capabilities, Capability Support and other future capabilities. Funds support Identity, Credential, and Access Management (ICAM). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 decreases $10.608 million due to funding reprioritization to support increased DISA infrastructure costs and migration from DISA to Cloud Hosting as the DISA systems approach end of life.			
Title: Network Support / Hardware Leasing ***Description:*** Supports infrastructure hosting at DISA. Includes computer processing, memory, and associated labor costs to maintain the IPPS-A software development environments. ***FY 2024 Plans:*** The FY24 funding supports infrastructure hosting at Defense Information Systems Agency (DISA). Includes services for computer processing, memory, and associated labor costs to maintain the IPPS-A hardware and software development environments. ***FY 2025 Plans:*** FY 2025 funding supports infrastructure hosting at DISA. Includes services for computer processing, memory, and associated labor costs to maintain the IPPS-A hardware and software development environments. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding increases $11.494 million due to DISA re-competes of all contracts and associated significant rate increases. Funds also support the operation of test and development environments.	6.686	14.381	25.875
Title: Systems Interfaces ***Description:*** Supports other government agencies providing technical services for interface design and build to enable end-to-end data integration. ***FY 2024 Plans:***	1.962	5.522	2.169

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	**Project (Number/Name)** ED9 / *Integrated Personnel and Pay System - Army Inc 2*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
The FY24 funding supports other government agencies providing technical services for interface design and build to enable end-to-end data integration. ***FY 2025 Plans:*** FY 2025 funding supports other government agencies providing technical services for interface design and build to enable end-to-end data integration. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decreases $3.353 million due to change in acquisition strategy. Interface costs were postponed and spread out over multiple years in support of updated Army Military Payroll contract strategy.			
Title: Cloud Hosting and Services ***FY 2025 Plans:*** FY 2025 funding supports the initial Cloud refactoring (nonrecurring engineering) of PeopleSoft software, migration costs, hosting costs, and software / user licenses. Cloud and DISA will operate in parallel until full transition in to Cloud Hosting in FY 2027. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increases $26.113 due to the updated infrastructure modernization plan of eventual transition from DISA to Cloud Hosting.	-	-	26.113
Accomplishments/Planned Programs Subtotals	65.055	102.084	126.354

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• B66706: *IPPS-A INC 2*	6.926	5.318	6.512	-	6.512	6.232	7.311	4.079	1.503	Continuing	Continuing
• OMA - Sustainment and Support OMA: *OMA - 432612000*	118.524	110.253	111.304	-	111.304	112.563	117.608	145.405	134.511	Continuing	Continuing

Remarks

B66706000 (Other Procurement, Army) FY 2025 Base procurement dollars in the amount of $6.512 million support training and training tools for the IPPS-A solution with 1.1 million users. Funds support training for the Army Military Payroll solution and Human Resource Enhancements which provides the delivery of new and updated training products and training teams, delivering both virtual and on-site support across the Army to assist end-user training and adoption for enhanced and new capabilities.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	**Project (Number/Name)** ED9 / *Integrated Personnel and Pay System - Army Inc 2*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost

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, DISA and migration to Cloud Hosting, 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.

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, (previously referred to as Release 4 and now called Future Capabilities), are Army Military Payroll, HR Enhancements, and Additional HR Capabilities. The program transitioned from waterfall development to agile development to better execute software development and fielding. On 25 July 2023, the Army Acquisition Executive (AAE) ordered IPPS-A to start work on Army Military Payroll (AMP) for Peoplesoft Global Payroll as the technical solution.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	Project (Number/Name) ED9 / *Integrated Personnel and Pay System - Army Inc 2*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Acquisition and Technical Support Services	C/CPIF	Various : Various	33.568	1.214	Jun 2023	1.291	Jun 2024	-		-		-	Continuing	Continuing	Continuing
PMO Change Management Travel	Allot	PM IPPS-A : Arlington, VA	-	0.072		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	33.568	1.286		1.291		-		-		-	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Services	C/CPFF	MITRE : Various	11.905	15.272	Mar 2023	15.992	Mar 2024	17.907	Mar 2025	-		17.907	Continuing	Continuing	Continuing
Design, Development and Integration	C/Various	To Be Determined : To Be Determined	39.835	39.849	Dec 2022	64.898	Jun 2023	54.290	Feb 2025	-		54.290	Continuing	Continuing	Continuing
Network Support / Hardware Leasing	MIPR	Defense Information Systems Agency (DISA) Defense Enterprise Computing Center (DECC) : various	186.303	6.686	Jan 2023	14.381	Dec 2023	25.875	Dec 2024	-		25.875	Continuing	Continuing	Continuing
Cloud Hosting and Services	MIPR	TBD : Various	-	-		-		26.113	Feb 2025	-		26.113	Continuing	Continuing	Continuing
Systems Interfaces	C/ FFPLOE	Various Government Agencies : Various Locations	25.926	1.962	Jul 2023	5.522	Dec 2023	2.169	Dec 2024	-		2.169	Continuing	Continuing	Continuing
		Subtotal	263.969	63.769		100.793		126.354		-		126.354	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	297.537	65.055		102.084		126.354		-		126.354	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	Project (Number/Name) ED9 / *Integrated Personnel and Pay System - Army Inc 2*	

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Network Support/Hardware Leasing increase from FY 2024 is due to DISA cost increases and the operation of test and development environments. IPPS-A will transition from DISA to a Cloud Host due to infrastructure end of life.

FY 2024 dollars in the amount of $12.300 million supports Cloud Hosting costs for the re-platforming (nonrecurring engineering) of PeopleSoft software so it can migrate to a Cloud Host. IPPS-A will migrate to the cloud to improve system operation and to account for DISA infrastructure obsolescence and end of life.

Correction: FY 2024 Design, Development and Integration Award Date is June 2024.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	**Project (Number/Name)** ED9 / *Integrated Personnel and Pay System - Army Inc 2*

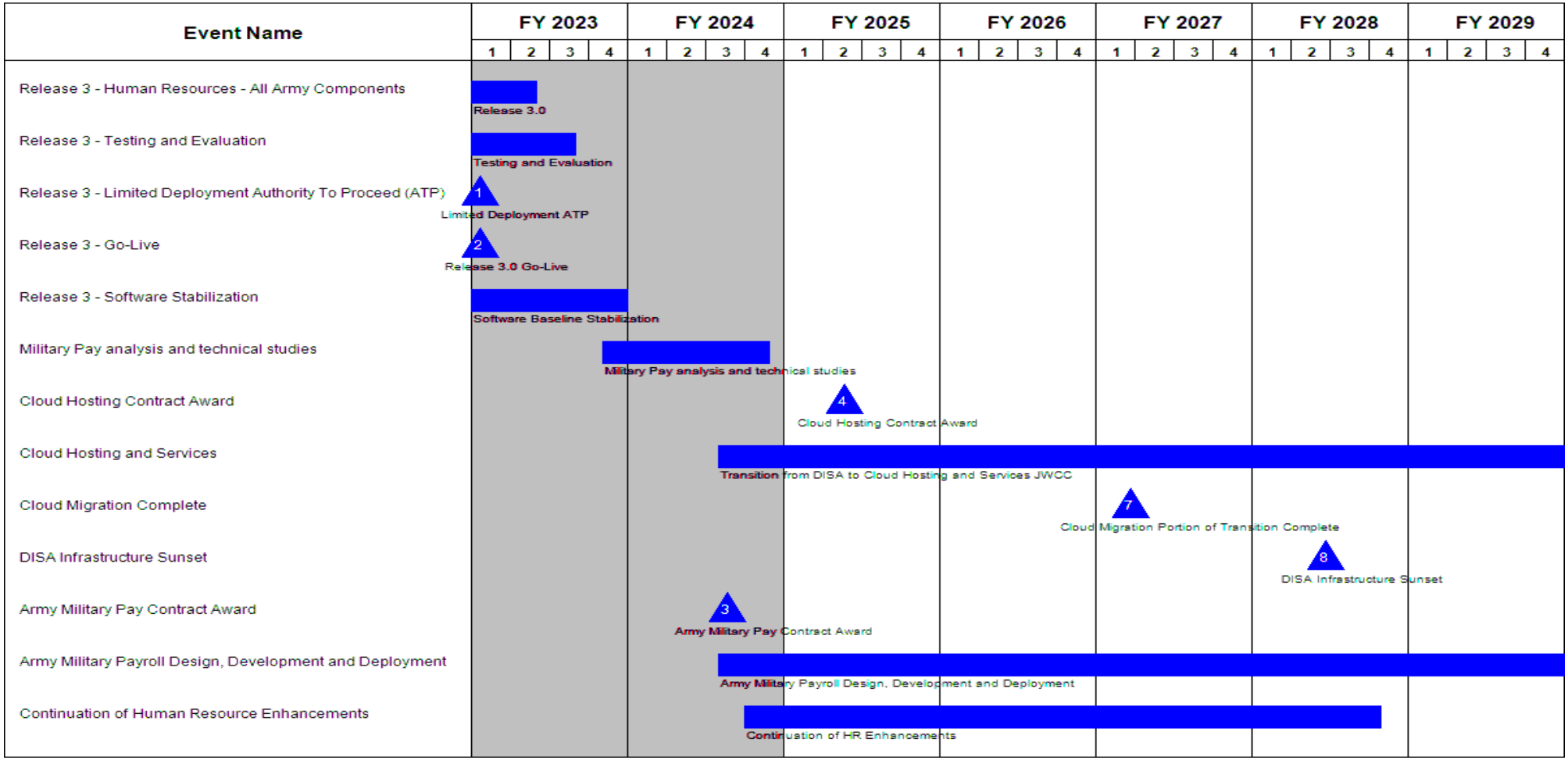


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	**Project (Number/Name)** ED9 / *Integrated Personnel and Pay System - Army Inc 2*

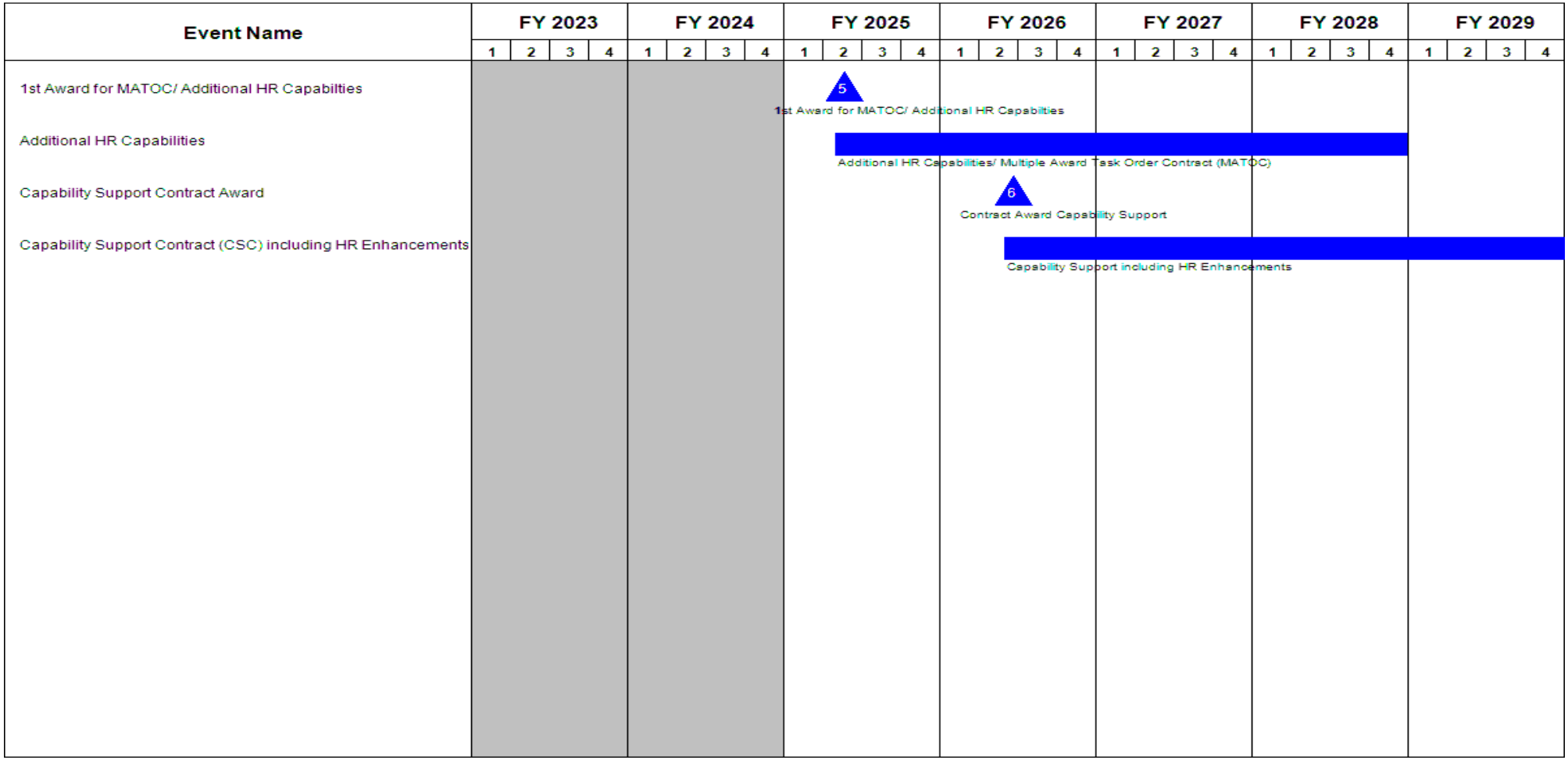


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	**Project (Number/Name)** ED9 / *Integrated Personnel and Pay System - Army Inc 2*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Milestone B (MS B) - Increment II	1	2015	1	2015
Release 2 - SIDPERS Functionality (ARNG)	4	2015	3	2020
Release 2 - Configuration, Development, and Integration	3	2017	3	2018
Release 2 - T & E	4	2018	2	2019
Release 2 - Limited Deployment Authority To Proceed (ATP)	3	2019	3	2019
Release 3 - Human Resources - All Army Components	4	2017	2	2023
Release 3 - Design and Development	2	2020	3	2021
Release 3 - Integrated Baseline Review (IBR)	3	2018	3	2018
Release 3 - Preliminary Design Review (PDR)	4	2019	4	2019
Release 3 - Critical Design Review (CDR)	1	2020	1	2020
Release 3 - Testing and Evaluation	3	2021	3	2023
Release 3 - Limited Deployment Authority To Proceed (ATP)	1	2023	1	2023
Release 3 - Go-Live	1	2023	1	2023
Release 3 - Software Stabilization	4	2022	4	2023
Military Pay analysis and technical studies	4	2023	4	2024
Cloud Hosting Contract Award	2	2025	2	2025
Cloud Hosting and Services	3	2024	1	2031
Cloud Migration Complete	1	2027	1	2027
DISA Infrastructure Sunset	2	2028	2	2028
Army Military Pay Contract Award	3	2024	3	2024
Army Military Payroll Design, Development and Deployment	3	2024	1	2032
Continuation of Human Resource Enhancements	4	2024	4	2028

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605018A / *Integrated Personnel and Pay System-Army (IPPS-A)*	**Project (Number/Name)** ED9 / *Integrated Personnel and Pay System - Army Inc 2*

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
1st Award for MATOC/ Additional HR Capabilties	2	2025	2	2025
Additional HR Capabilities	2	2025	4	2028
Capability Support Contract Award	2	2026	2	2026
Capability Support Contract (CSC) including HR Enhancements	2	2026	2	2032

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605030A / *Joint Tactical Network Center (JTNC)*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	17.274	18.662	20.191	-	20.191	20.605	21.026	21.454	21.904	Continuing	Continuing
EA8: *Joint Tactical Networking Center*	-	17.274	18.662	20.191	-	20.191	20.605	21.026	21.454	21.904	Continuing	Continuing

Note

Joint Tactical Networking Center (JTNC) is funded using a Joint budget strategy. Each Military Department (MILDEP) contributes one-third of total program Research Development Test & Evaluation (RDT&E) requirements for joint efforts. Funding reflects the full Army requirement with consolidated funding from Air Force and Navy for the JTNC.

Realignment from Navy PE 0605030N and Air Force PE 0605030F to Army PE 0605030A for execution.

A. Mission Description and Budget Item Justification

This program aligns with Army 2030/40 priorities.

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-

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605030A *I Joint Tactical Network Center (JTNC)*

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, such as Software Defined Radios (SDR) ported with specific waveforms to support National Security Agency (NSA) efforts. The JTNC participates in Standards-related activities such as the Interface Control Working Group (ICWG) and has been collaborating with the Army on the development of C4ISR/Electronic Warfare Modular Open Suite of Standards (CMOSS) specifications. Finally, the JTNC continues evolving its Waveform Assessment and Milestone Review (WASMR) and Capability Characterization processes.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	17.936	18.662	6.178	-	6.178
Current President's Budget	17.274	18.662	20.191	-	20.191
Total Adjustments	-0.662	0.000	14.013	-	14.013
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.007	-			
• SBIR/STTR Transfer	-0.655	-			
• Adjustments to Budget Years	-	-	14.013	-	14.013

Change Summary Explanation

FY25 increase is the result of realignment from Navy (PE 0605030N) and Air Force (PE 0605030F) to Army as per the Joint Budget Strategy.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605030A / *Joint Tactical Network Center (JTNC)*				Project (Number/Name) EA8 / *Joint Tactical Networking Center*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
EA8: *Joint Tactical Networking Center*	-	17.274	18.662	20.191	-	20.191	20.605	21.026	21.454	21.904	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Joint Tactical Networking Center (JTNC) is funded using a Joint budget strategy. Each Military Department (MILDEP) contributes one-third of total program Research Development Test & Evaluation (RDT&E) requirements for joint efforts. Funding reflects the full Army requirement with consolidated funding from Air Force and Navy for the JTNC.

Realignment from Navy PE 0605030N and Air Force PE 0605030F to 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,

such as software defined radios ported with specific waveforms to support National Security Agency (NSA) efforts. The JTNC participates in Standards-related activities such as the Interface Control Working Group (ICWG) and has been collaborating with the Army on the development of C4ISR/Electronic Warfare Modular Open Suite of Standards (CMOSS) specifications. Finally, the JTNC continues evolving its Waveform Assessment and Milestone Review (WASMR) and Capability Characterization processes.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: DoD Waveform IR Support, Waveform Standards Evolution and Compliance & Certification Analysis	17.274	18.662	20.191

Description: Joint Tactical Networking Center (JTNC) aligns with the Communications, Command, and Control Leadership Board (C3LB), DoD Chief Information Officer (CIO), Joint Staff, the Services, and other key stakeholders for those JTNC chartered processes that ensure secure, interoperable, and resilient tactical communications. 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). The Joint Tactical Networking Center aligns with Army 2030/40 priorities.

FY 2024 Plans:
JTNC will continue to serve as Chair of the Communications Waveforms and Technologies Working Group (CTWWG), supporting both TCSSG and C3LB efforts towards managing Joint warfighter challenges and fielding tactical communications solutions. JTNC will continue technical analysis efforts for C3LB approved waveforms, in accordance with Service priorities and the FY 2024 JTNC Management Plan. The JTNC will continue to support both the Services and Principal Staff Assistant (DoD CIO) in oversight of Lead Service activities as Technical Advisor, assisting in the identification and resolution of cross-service networking disconnects. The JTNC will remain engaged in Joint All Domain Command and Control (JADC2) Operational Planning Teams/ systems engineering support across the Services. The JTNC, through the efforts of the CTWWG's Resiliency Sub-Working Group, will coordinate and socialize resiliency terminology, processes, and support resources to design, test, compare, and field tactical radio products most capable of mitigating adversary detection, interception, geolocation, and jamming threats. The JTNC will continue managing and maintaining the DoD Information Repository (IR), providing controlled access for proprietary and nonproprietary waveforms and associated tactical communications products. The JTNC will enhance DoD IR capabilities by evolving framework compliance and Cloud migration.

The JTNC will continue Joint Communications Marketplace (JCM) development to meet DoD and Industry requirements in conjunction with DoD Instruction 4630.09. The JTNC will manage evolution of the JCM to provide value-added collaborative environment tools, enabling Government and Industry to share information on innovative technologies and DoD capability gaps leading to rapid acquisition efforts to meet warfighter needs. JCM capabilities/communities will continue to support PEO C3T and Network Cross-Functional Team (N-CFT) requirements for Industry engagement, Technical Exchange Meetings (TEMs),

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605030A / *Joint Tactical Network Center (JTNC)*	**Project (Number/Name)** EA8 / *Joint Tactical Networking Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
whitepaper submission and evaluation, and contract efforts. The JTNC will continue development of tactical communications vendor product capability characterizations for commercial off-the-shelf (COTS) and non-developmental item (NDI) tactical communication products. The JTNC will continue to evolve DoD Waveform Standards to facilitate common development, interoperability and re-use, reducing product development time and facilitating faster delivery of capabilities to warfighters. Focused efforts will leverage emerging Spectrum activities and facilitate deployment of the Modular Radio Architecture (MRA). Finally, the JTNC will continue to support export requests and analyses of products for exportability.			
FY 2025 Plans: JTNC will continue to serve as Chair of the Communications Waveforms and Technologies Working Group (CTWWG), supporting both TCSSG and C3LB efforts towards managing Joint warfighter challenges and fielding tactical communications solutions. JTNC will continue technical analysis efforts for C3LB approved waveforms, in accordance with Service priorities and the FY 2025 JTNC Management Plan. The JTNC will continue to support both the Services and Principal Staff Assistant (DoD CIO) in oversight of Lead Service activities as Technical Advisor, assisting in the identification and resolution of cross-service networking disconnects. The JTNC will remain engaged in Joint All Domain Command and Control (JADC2) Operational Planning Teams/ systems engineering support across the Services. The JTNC, through the efforts of the CTWWG's Resiliency Sub-Working Group, will coordinate and socialize resiliency terminology, processes, and support resources to design, test, compare, and field tactical radio products most capable of mitigating adversary detection, interception, geolocation, and jamming threats. The JTNC will continue managing and maintaining the DoD Information Repository (IR), providing controlled access for proprietary and nonproprietary waveforms and associated tactical communications products. The JTNC will enhance DoD IR capabilities by evolving framework compliance and Cloud migration. The JTNC will continue Joint Communications Marketplace (JCM) development to meet DoD and Industry requirements in conjunction with DoD Instruction 4630.09. The JTNC will manage evolution of the JCM to provide value-added collaborative environment tools, enabling Government and Industry to share information on innovative technologies and DoD capability gaps leading to rapid acquisition efforts to meet warfighter needs. JCM capabilities/communities will continue to support PEO C3T and Network Cross-Functional Team (N-CFT) requirements for Industry engagement, Technical Exchange Meetings (TEMs), whitepaper submission and evaluation, and contract efforts. The JTNC will continue development of tactical communications vendor product capability characterizations for commercial off-the-shelf (COTS) and non-developmental item (NDI) tactical communication products. The JTNC will continue to evolve DoD Waveform Standards to facilitate common development, interoperability and re-use, reducing product development time and facilitating faster delivery of capabilities to warfighters. Focused efforts will leverage emerging Spectrum activities and facilitate deployment of the Modular Radio Architecture (MRA). Finally, the JTNC will continue to support export requests and analyses of products for exportability.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605030A / *Joint Tactical Network Center (JTNC)*	**Project (Number/Name)** EA8 / *Joint Tactical Networking Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY25 represents Joint-funding consolidation from Navy (PE 0605030N) and Air Force, (PE 0605030F) into Army (0605030A).			
Accomplishments/Planned Programs Subtotals	17.274	18.662	20.191

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

JTNC operates based on a Joint Funding Strategy, there is no prior year funding for JTNC in the other Service lines. JTNC funding has been 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 Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605030A / *Joint Tactical Network Center (JTNC)*	Project (Number/Name) EA8 / *Joint Tactical Networking Center*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	Various	Multiple Contract Awards : Various	7.632	0.195	Oct 2022	0.197	Oct 2023	0.213	Oct 2024	-		0.213	Continuing	Continuing	Continuing
Program Management Support	C/CPFF	G2 Software Systems : San Diego, CA	5.168	0.565	Oct 2022	0.656	Oct 2023	0.710	Oct 2024	-		0.710	Continuing	Continuing	Continuing
Program Management Support	MIPR	NIWC PACIFIC : San Diego, CA	1.506	0.375	Nov 2022	0.379	Nov 2023	0.410	Nov 2024	-		0.410	Continuing	Continuing	Continuing
		Subtotal	14.306	1.135		1.232		1.333		-		1.333	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
JTNC Product Development Support	MIPR	NIWC PACIFIC : San Diego, CA	6.100	0.928	Oct 2022	0.937	Oct 2023	1.014	Oct 2024	-		1.014	Continuing	Continuing	Continuing
JTNC Product Development Support	C/CPFF	G2 Software Systems : San Diego, CA	19.826	2.442	Oct 2022	3.540	Oct 2023	3.829	Oct 2024	-		3.829	Continuing	Continuing	Continuing
JTNC Product Development Support	MIPR	NIWC ATLANTIC : Charleston, SC	9.068	1.181	Dec 2022	1.192	Dec 2023	1.290	Dec 2024	-		1.290	Continuing	Continuing	Continuing
JTNC Product Development Support	C/CPFF	NIWC ATLANTIC JCM (SRC) : Atlanta, GA	0.439	1.820	Nov 2022	1.837	Nov 2023	1.988	Nov 2024	-		1.988	Continuing	Continuing	Continuing
		Subtotal	35.433	6.371		7.506		8.121		-		8.121	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
JTNC Engineering/ Technical Support	C/CPFF	G2 Software Systems : San Diego, CA	8.461	0.776	Oct 2022	0.983	Oct 2023	1.064	Oct 2024	-		1.064	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605030A / *Joint Tactical Network Center (JTNC)*	Project (Number/Name) EA8 / *Joint Tactical Networking Center*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
JTNC Engineering/ Technical Support	FFRDC	MITRE Corporation : McLean, VA	1.373	0.246	Oct 2022	0.248	Oct 2023	0.268	Oct 2024	-		0.268	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	MIPR	Aberdeen Proving Grounds : Aberdeen, MD	5.025	0.490	Dec 2022	0.495	Dec 2023	0.536	Dec 2024	-		0.536	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	MIPR	NIWC PACIFIC : San Diego, CA	5.167	1.277	Nov 2022	1.289	Nov 2023	1.395	Nov 2024	-		1.395	Continuing	Continuing	Continuing
		Subtotal	20.026	2.789		3.015		3.263		-		3.263	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development/Test & Evaluation	MIPR	NIWC PACIFIC : San Diego, CA	13.117	3.268	Nov 2022	2.638	Nov 2023	2.854	Nov 2024	-		2.854	Continuing	Continuing	Continuing
Development/Test & Evaluation	C/CPFF	G2 Software Systems : San Diego, CA	18.458	3.480	Oct 2022	4.038	Oct 2023	4.368	Oct 2024	-		4.368	Continuing	Continuing	Continuing
Development/Test & Evaluation	C/CPFF	Multiple Awards : Various	2.510	0.231	Nov 2022	0.233	Nov 2023	0.252	Nov 2024	-		0.252	Continuing	Continuing	Continuing
		Subtotal	34.085	6.979		6.909		7.474		-		7.474	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	103.850	17.274		18.662		20.191		-		20.191	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605030A / *Joint Tactical Network Center (JTNC)*	**Project (Number/Name)** EA8 / *Joint Tactical Networking Center*

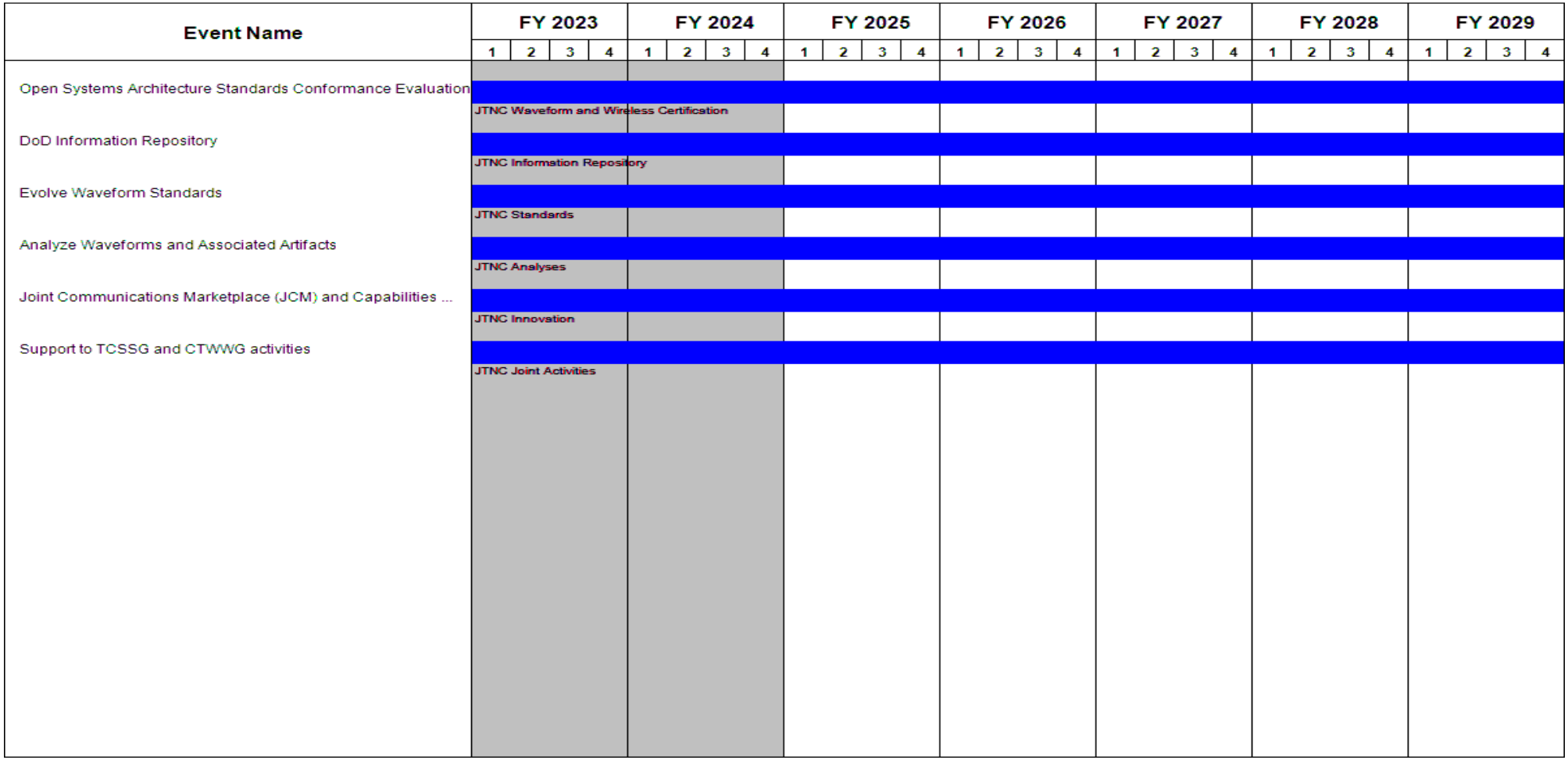


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605030A / *Joint Tactical Network Center (JTNC)*	**Project (Number/Name)** EA8 / *Joint Tactical Networking Center*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Open Systems Architecture Standards Conformance Evaluations	1	2020	4	2029
DoD Information Repository	1	2020	4	2029
Evolve Waveform Standards	1	2020	4	2029
Analyze Waveforms and Associated Artifacts	1	2020	4	2029
Joint Communications Marketplace (JCM) and Capabilities Characterization (CC)	1	2020	4	2029
Support to TCSSG and CTWWG activities	1	2020	4	2029

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605031A / *Joint Tactical Network (JTN)*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	29.050	30.328	31.214	-	31.214	25.763	31.032	31.322	31.586	Continuing	Continuing
EF5: *Joint Tactical Network (JTN)*	-	10.323	10.240	9.669	-	9.669	4.234	4.280	4.327	4.370	Continuing	Continuing
EX6: *Waveforms*	-	18.727	20.088	21.545	-	21.545	21.529	26.752	26.995	27.216	Continuing	Continuing

A. Mission Description and Budget Item Justification

EF5 project: 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 2025 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:

(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 2025 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)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	30.150	30.328	26.281	-	26.281
Current President's Budget	29.050	30.328	31.214	-	31.214
Total Adjustments	-1.100	0.000	4.933	-	4.933
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.100	-			
• Adjustments to Budget Years	-	-	4.933	-	4.933

Change Summary Explanation

FY 2025 increase for Joint Tactical Network (JTN) development and testing of the Joint Enterprise Network Management (JENM).

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605031A / *Joint Tactical Network (JTN)*				Project (Number/Name) EF5 / *Joint Tactical Network (JTN)*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
EF5: *Joint Tactical Network (JTN)*	-	10.323	10.240	9.669	-	9.669	4.234	4.280	4.327	4.370	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Joint Tactical Network (JTN) 0605031A is funded using a Joint budget strategy. Each Military Department (MILDEP) budgets for approximately one-third of the total program RDT&E requirements for joint efforts. The Joint budget strategy provides annual realignments, through the Program Decision Memorandum (PDM) process, from Navy and Air Force to the Army for execution.

Fiscal Year (FY) 2023 to FY 2025 funding reflects post realignments from Navy and Air Force in support of Joint Enterprise Network Management (JENM) software development to the Army for execution as the Lead Service. Funding in FY 2026 and out reflects the Army's portion of funds. Out-year funding is programmed within the Army PE 0605031A, Navy PE 0605031N, and Air Force PE 0605031F.

A. Mission Description and Budget Item Justification

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

FY 2025 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 Advanced Networking Waveform (ANWF). JENM development provides integration of the Integrated Tactical Network (ITN) and Network Management of emerging systems that enable Soldiers the ability to effectively manage ITN. Radio Planner development supports MUOS waveform planning continuous system improvements and rapid provisioning of the MUOS end-user terminals. These planning applications are deployed on and are critically tied to the Ruggedized Applications Platform - Tactical Radios (RAP-TR) hardware from Division to the Company level.

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025**
Title: JENM Program Office Support	3.053	3.028	2.859
Description: Program Management Office support in the development of the JENM software.			
FY 2024 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EF5 / *Joint Tactical Network (JTN)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
The JENM program office will continue to support the expansion of JENM design, engineering, integration and test of planning and management capabilities for the Tactical Radio Network in support of Joint Service requirements through the use of Matrix and Contractor support. The JENM program office supports the vision of integrating lower and mid-tier Network Management capabilities to enable Soldiers to manage their entire consolidated tactical network in conjunction with network elements managed by Sailors, Marines, and Airmen. Program office funding will also support completion of MUOS waveform planning simplification and rapid provisioning of MUOS end-user terminals and expansion for deployment onto the Top Secret Enclave. ***FY 2025 Plans:*** The JENM program office will continue to support the expansion of JENM design, engineering, integration and test of planning and management capabilities for the Tactical Radio Network in support of Joint Service requirements through the use of Matrix and Contractor support. The JENM program office supports the vision of integrating lower and mid-tier Network Management capabilities to enable Soldiers to manage their entire consolidated tactical network in conjunction with network elements managed by Sailors, Marines, and Airmen. Program office funding will also support completion of MUOS waveform planning simplification and rapid provisioning of MUOS end-user terminals and expansion for deployment onto the Top Secret Enclave. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** JENM PMO reduced from FY24 to FY25 as the result of reduced contract costs for PMO activities			
Title: JENM Development ***Description:*** JENM provides consolidated communications planning, network configuration, network activation, position reporting, fault management, security management, and network health and status reporting needed to establish and maintain a mobile wireless network comprised of SW defined network waveforms. JENM interfaces with other external network managers, mission planning systems, network planning systems, key management systems, and spectrum planning systems. JENM is considered a mission essential system. JENM is also considered a critical element within the Ruggedized Application Platform - Tactical Radios (RAP-TR) hardware configuration management tool kit. ***FY 2024 Plans:*** Development funding will continue design, engineering, integration and test of planning and management application for the Tactical Radio network. Support to align with Army Network Modernization to provide further integration of the lower and mid-tier Network Management for Integrated Tactical Network (ITN) to enable Soldiers the ability to manage the entire consolidated tactical network in conjunction with network elements managed by Sailors, Marines, and Airmen. Development funding will also support completion of MUOS waveform planning simplification and rapid provisioning of MUOS end-user terminals for joint service requirements. JENM planning applications are deployed on, and critically tied to the RAP-TR hardware from Division to the Company level. ***FY 2025 Plans:***	7.270	7.212	6.810

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EF5 / *Joint Tactical Network (JTN)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Development funding will continue design, engineering, integration and test of planning and management application for the Tactical Radio network. Support to align with Army Network Modernization to provide further integration of the lower and mid-tier Network Management for Integrated Tactical Network (ITN) to enable Soldiers the ability to manage the entire consolidated tactical network in conjunction with network elements managed by Sailors, Marines, and Airmen. Development funding will also support completion of MUOS waveform planning simplification and rapid provisioning of MUOS end-user terminals for joint service requirements. JENM planning applications are deployed on, and critically tied to the RAP-TR hardware from Division to the Company level. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding decreased FY 2024 to FY 2025 due to reduced software development contract costs.			
Accomplishments/Planned Programs Subtotals	10.323	10.240	9.669

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• B99318: *Joint Network Management System*	1.367	1.987	2.010	-	2.010	2.018	2.019	2.020	2.040	Continuing	Continuing

Remarks

Total funding for Joint Enterprise Network Management (JENM) software development includes Joint Service contributions provided through the annual Program Decision Memorandum (PDM). The Joint Service agreement provides that each service will budget for approximately one-third of the total program RDTE funds. Joint Service funding has been realigned into the Army PE 0605031A funding line from the Navy PE 0605031N and Air Force PE 0605031F.

The Joint Network Management System (JNMS) BA9301 / B99318 funding line supports JENM software deployment activities to Army users.

D. Acquisition Strategy

Joint Tactical Network (JTN) is a Joint Services program supporting the development, testing, and integration of the Joint Enterprise Network Management (JENM) capabilities, with Army designated as the Lead Service for this effort.

The Army manages a Government Owned, Government Operated (GOGO) Software Development and Integration facility which employs competitive contracting strategies for continues development and continuous improvement of network management components.

The Army will continue to lead the Joint Services effort to deliver planning, configuration, loading, and management of the Joint Services' tactical radios and networks.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EF5 / *Joint Tactical Network (JTN)*

With the sunsetting of JENM v3.5.X software in FY 2029, the Army has engaged the Joint Services on the transition to the Next Generation Radio Planner software. A Memorandum of Agreement (MOA) is being staffed through the Joint Services documenting the transition plan and continuation of the Joint Budget Strategy with each service contributing approximately one-third of the software development costs.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605031A / *Joint Tactical Network (JTN)*	Project (Number/Name) EF5 / *Joint Tactical Network (JTN)*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
JENM Program Management Support	MIPR	Various : Various	12.485	3.053	Oct 2022	3.028	Oct 2023	2.859	Oct 2024	-		2.859	Continuing	Continuing	Continuing
		Subtotal	12.485	3.053		3.028		2.859		-		2.859	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
JENM NMRIL Development CIT II	MIPR	NM RIL : San Diego, CA	9.449	1.709	Dec 2022	1.117	Dec 2023	1.328	Dec 2024	-		1.328	Continuing	Continuing	Continuing
JENM NMRIL Development	MIPR	NMRIL : San Diego, CA	24.177	2.975	Oct 2022	1.945	Oct 2023	2.312	Oct 2024	-		2.312	Continuing	Continuing	Continuing
JENM NMRIL Development SSA	MIPR	NMRIL : San Diego, CA	10.088	0.994	May 2023	0.650	May 2024	0.772	May 2025	-		0.772	Continuing	Continuing	Continuing
Next Gen Radio Planner Development	MIPR	L3 Harris : Rochester, New York	-	1.592	May 2023	3.500	May 2024	2.398	Nov 2024	-		2.398	Continuing	Continuing	Continuing
		Subtotal	43.714	7.270		7.212		6.810		-		6.810	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	56.199	10.323		10.240		9.669		-		9.669	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EF5 / *Joint Tactical Network (JTN)*

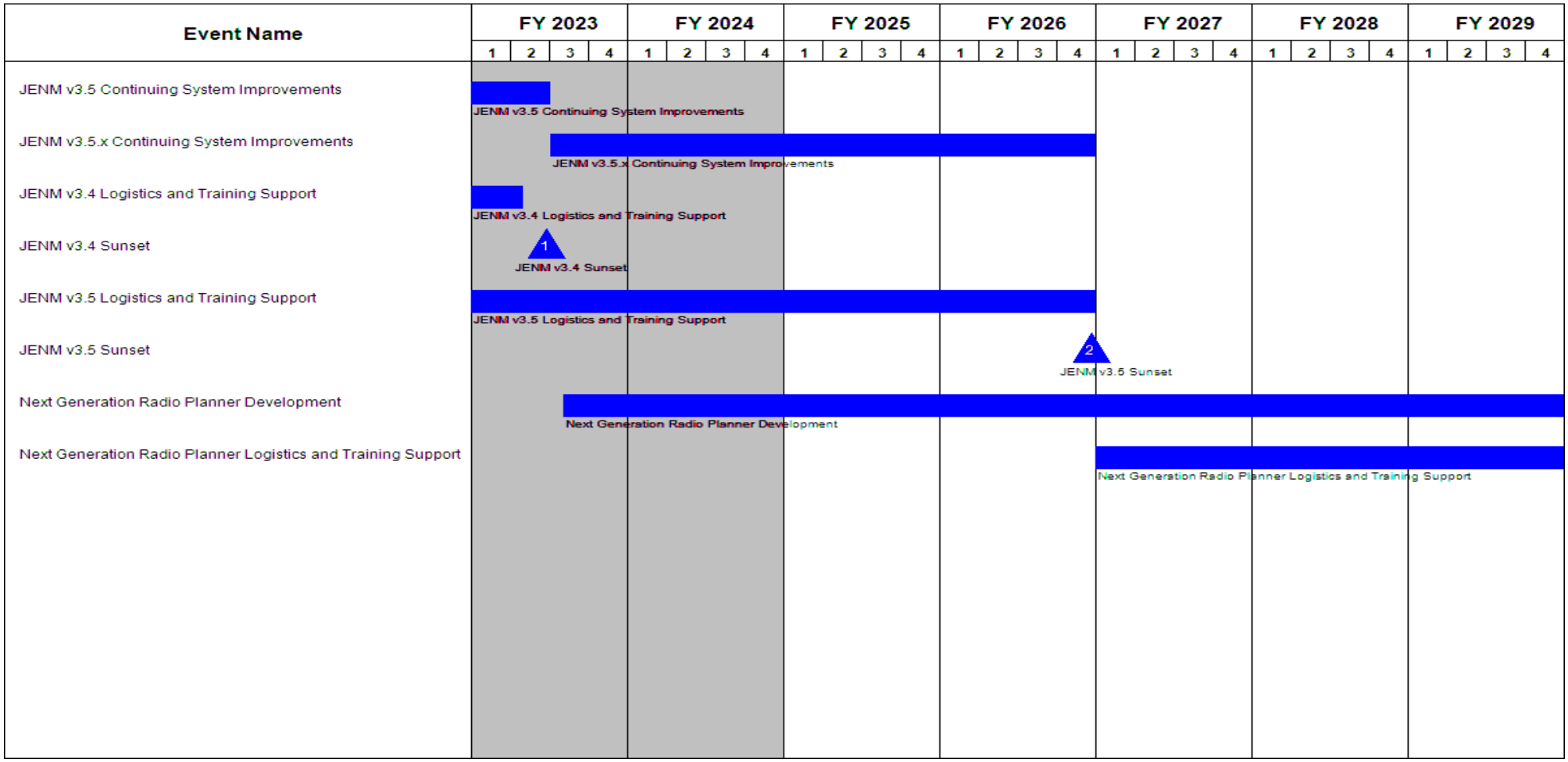


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EF5 / *Joint Tactical Network (JTN)*

Schedule Details

	Start		End	
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 v3.4 Logistics and Training Support	4	2019	1	2023
JENM v3.4 Sunset	2	2023	2	2023
JENM v3.5 Logistics and Training Support	4	2021	4	2026
JENM v3.5 Sunset	4	2026	4	2026
Next Generation Radio Planner Development	3	2023	4	2029
Next Generation Radio Planner Logistics and Training Support	1	2027	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605031A / *Joint Tactical Network (JTN)*	Project (Number/Name) EX6 / *Waveforms*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EX6: *Waveforms*	-	18.727	20.088	21.545	-	21.545	21.529	26.752	26.995	27.216	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 2025 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 2023	FY 2024	FY 2025
Title: Program Management Office Support	2.532	2.968	3.710
Description: Waveform matrix and contractor support, including technical, logistics, and business staff oversight			
FY 2024 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EX6 / *Waveforms*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Program Management support for PdM Waveforms. Funding will provide for matrix and contractor support for Waveforms engineering development, testing, and program oversight. ***FY 2025 Plans:*** Program Management support for PdM Waveforms. Funding will provide for matrix and contractor support for Waveforms engineering development, testing, and program oversight. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increased as a result of additional contractor and matrix personnel required to support SINCGARS FH4 requirements analysis and development.			
Title: Waveforms Software Development ***Description:*** PdM Waveforms provides software development and waveforms support for tactical radios operational and networking requirements for the following: 1) Single Channel Ground and Airborne Radio System (SINCGARS) - Develop SINCGARS waveform to combat the adversary's near, mid, and far-term Electronic Attack/Electronic Warfare (EA/EW) capabilities 2) Warrior Robust Enhanced Network (WREN) Waveform will enhance range, scalability, and Electronic Protection (EP) for a unified transport to Army tactical networks. 3) Radio Services (i.e. enterprise Over The Air Management (eOTAM) in support of Army Network modernization, and agile mission support initiatives. ***FY 2024 Plans:*** Funding will support the requirement and initial design development of SINCGARS NexGen, WREN problem fixes and hardening the capability in support of the ITN and CS25, design and development of WREN enhancements for ITN and CS27. Support will include effort to alleviate Cyber Electro-Magnetic Activities (CEMA) threats for SINCGARS and WREN, including Lead Service activities, and Radio Services (i.e. enterprise Over The Air Management (eOTAM)). ***FY 2025 Plans:*** Funding will support the Single Channel Ground and Airborne Radio System (SINCGARS) Frequency Hopping 4 (FH4) waveform preliminary system requirements analysis and development; Warrior Robust Enhanced Network (WREN) developmental Release B maturation, hardening and problem fixes; enterprise Over The Air Management (eOTAM) 2.2 development and final release as well as eOTAM 2.2.1 development contract award. Support will include efforts to alleviate Cyber Electro-Magnetic Activities (CEMA) threats for SINCGARS and WREN, including Lead Service activities, and Radio Services. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increase is due to initial SINCGARS FH4 requirements analysis and development.	9.815	10.528	11.395
Title: Waveforms Test and Evaluation	3.686	4.273	3.945

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EX6 / *Waveforms*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: PdM Waveforms performs test and evaluation activities to address interoperability, range, scalability, resiliency, Electronic Warfare (EW)/Cyber Electromagnetic Activities (CEMA), and readiness. Advanced Networking Waveforms (ANWf) assessments support inclusion and/or integration of technologies into Army experimentation and Capability Sets (CS's) Viability and Readiness Assessments including Technology Readiness Level (TRL) assessment, test and evaluation of EW and cyber capabilities in support of Integrated Tactical Network (ITN), performance and behavior analysis of waveforms against topologies, architectures, operational use cases and fielding activities. ***FY 2024 Plans:*** Funding will validate continued design and system engineering activities of the NexGen of Single Channel Ground and Airborne Radio System (SINCGARS), validate and test the enhancements and problem fixes of the Warrior Robust Enhanced Network (WREN) waveforms, validate implementation of fielded enterprise Over The Air Management (eOTAM), and provide performance characterization and analysis of waveforms to meet current and future warfighter's requirements. Conduct analysis on Advanced Networking Waveforms (ANWf) / Non-Developmental Items (NDI). ***FY 2025 Plans:*** Funding will validate continued design and system engineering activities of SINCGARS Frequency Hopping (FH) 3. Validate and test the enhancements and problem fixes of the WREN waveforms in support of future releases. Validate implementation of fielded eOTAM versions and provide performance characterization and analysis of waveforms to meet current and future warfighter's requirements. Conduct analysis of Advanced Networking Waveforms (ANWf) / Non-Developmental Items (NDI). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease due to a reduction of SINCGARS FH3 testing requirements.			
Title: Waveforms Software Support and System Engineering	2.694	2.319	2.495
Description: PdM Waveforms software support and systems engineering for waveforms and network manager applications provides the following: 1) Radio Services applications that enable over-the-air (OTA) NSA cryptographic key, radio and network configuration tools and bandwidth efficient OTA protocols supporting the Unified Network Line of Effort (LOE) for CSs 2) eOTAM will enhance radio health services, Common Management Information Base (MIB) integration, integration with Army network management systems and comply with NSA security standards 3) Evaluate the Technology Readiness Level (TRL) of ANWf in support of the ITN, and CS' requirements and architectures. 4) Oversight and inform policy for SINCGARS, WREN, TSM, eOTAM, and related products for DoD, including Lead Service activities ***FY 2024 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EX6 / *Waveforms*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Funding will support radio services software, product enhancement, and systems engineering & integration (SE&I) as described above in support of PdM Waveforms. Support will include: release of enterprise Over The Air Management (eOTAM) and integration into Integrated Network Battalion and Below (INB2) and Unified Network Operations (UNO); Lead Service activities for the integration of existing and emerging waveforms in the DoD; analysis of TSM capabilities for Warrior Robust Enhanced Network (WREN) integration to Manpack and Leader Radios, Risk Management Framework(RMF) for new WREN capabilities, and release to DoD, NATO and ABCANZ ensuring interoperability between the US and Coalition partners, including Lead Service activities. ***FY 2025 Plans:*** Funding will support radio services software, product enhancement, and systems engineering & integration (SE&I) as described above in support of PdM Waveforms. Support will include: release of enterprise Over The Air Management (eOTAM) and integration into Integrated Network Battalion and Below (INB2) and Unified Network Operations (UNO); Lead Service activities for the integration of existing and emerging waveforms in the DoD; analysis of TSM capabilities for Warrior Robust Enhanced Network (WREN) integration to Manpack and Leader Radios, Risk Management Framework(RMF) for new WREN capabilities, and release to DoD, NATO and ABCANZ ensuring interoperability between the US and Coalition partners, including Lead Service activities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase due to the release of eOTAM 2.2 and support required to integrate into Manpack and Leader Radios.			
Accomplishments/Planned Programs Subtotals	18.727	20.088	21.545

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

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 ANWfs. 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 Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605031A / *Joint Tactical Network (JTN)*	Project (Number/Name) EX6 / *Waveforms*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support - Matrix	MIPR	C5ISR Center : APG, MD	6.134	0.701	Jan 2023	1.940	Jan 2024	1.562	Jan 2025	-		1.562	Continuing	Continuing	Continuing
Program Management Support - SETA	C/CPFF	SEV1-Tech : Woodbridge, VA	11.014	1.831	Nov 2022	1.828	Nov 2023	2.148	Nov 2024	-		2.148	Continuing	Continuing	Continuing
		Subtotal	17.148	2.532		3.768		3.710		-		3.710	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development - C5ISR Center	MIPR	C5ISR Center : APG, MD	39.664	4.023	Nov 2022	2.391	Mar 2024	2.449	Mar 2025	-		2.449	Continuing	Continuing	Continuing
Software Development - eOTAM (MA-IDIQ)	C/CPFF	MA - IDIQ : Various Locations	23.761	-		3.213	Mar 2024	3.863	Apr 2025	-		3.863	Continuing	Continuing	Continuing
Software Development - WREN/TSM (ACC- PICA/ OTA)	C/CPFF	Advanced Technology International : Summerville, SC	3.523	5.792	Apr 2023	-		4.518	Mar 2025	-		4.518	Continuing	Continuing	Continuing
Software Development - WREN/TSM (IDIQ)	TBD	TBD : TBD	-	-		4.124	Mar 2024	-		-		-	Continuing	Continuing	Continuing
		Subtotal	66.948	9.815		9.728		10.830		-		10.830	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering - SSC NIWC	MIPR	SSC LANT/PAC : Charleston, SC; San Diego, CA	2.608	0.380	Dec 2022	0.470	Nov 2023	0.636	Nov 2024	-		0.636	Continuing	Continuing	Continuing
Software Support - C5ISR	MIPR	C5ISR Center : APG, MD	7.846	2.314	Nov 2022	1.849	Nov 2023	2.424	Mar 2025	-		2.424	Continuing	Continuing	Continuing
		Subtotal	10.454	2.694		2.319		3.060		-		3.060	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605031A / *Joint Tactical Network (JTN)*	Project (Number/Name) EX6 / *Waveforms*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation Support	MIPR	C5ISR Center : APG, MD	18.137	3.686	Feb 2023	4.273	Mar 2024	3.945	Mar 2025	-		3.945	Continuing	Continuing	Continuing
		Subtotal	18.137	3.686		4.273		3.945		-		3.945	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	112.687	18.727		20.088		21.545		-		21.545	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EX6 / *Waveforms*

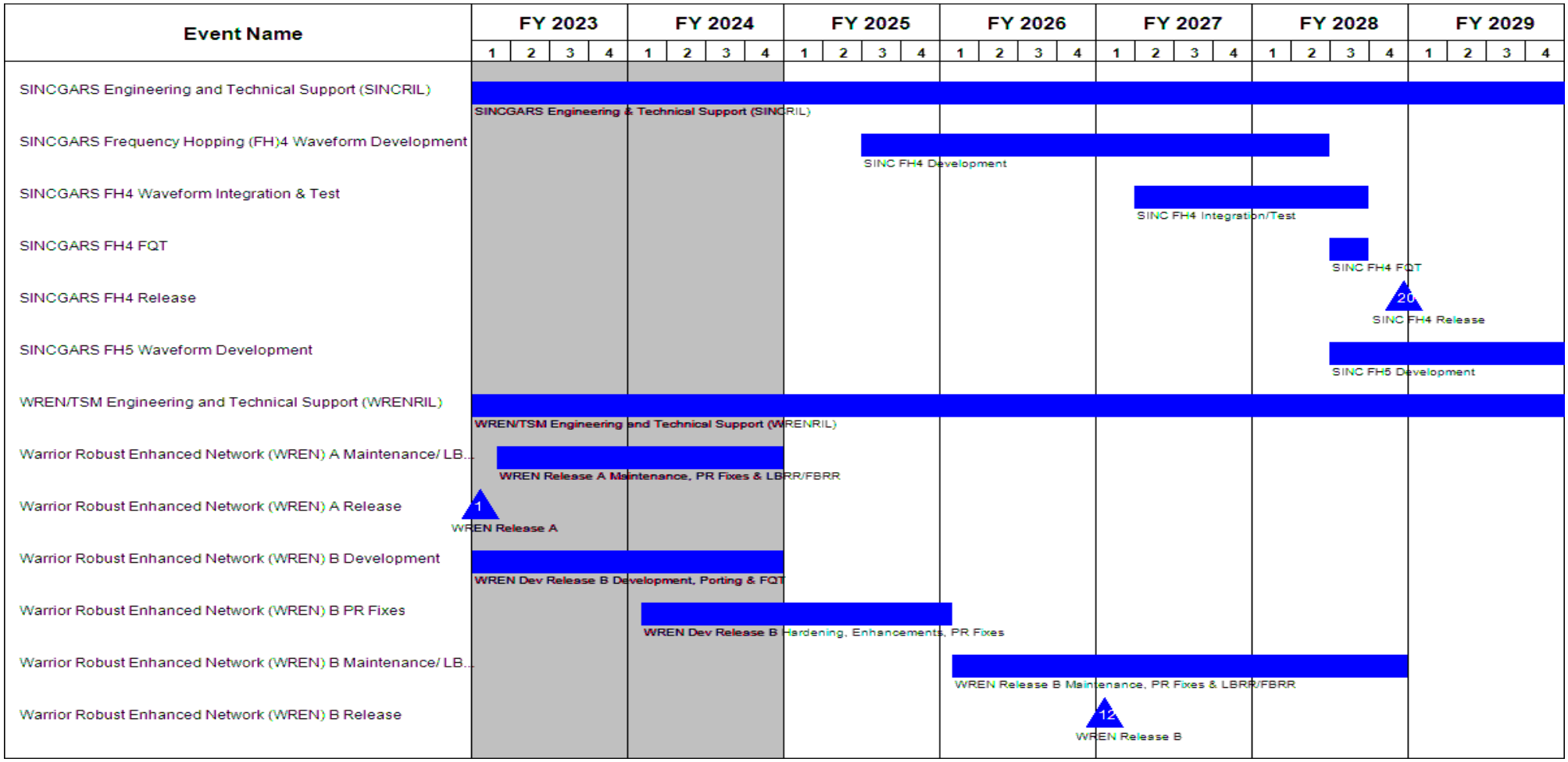


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EX6 / *Waveforms*

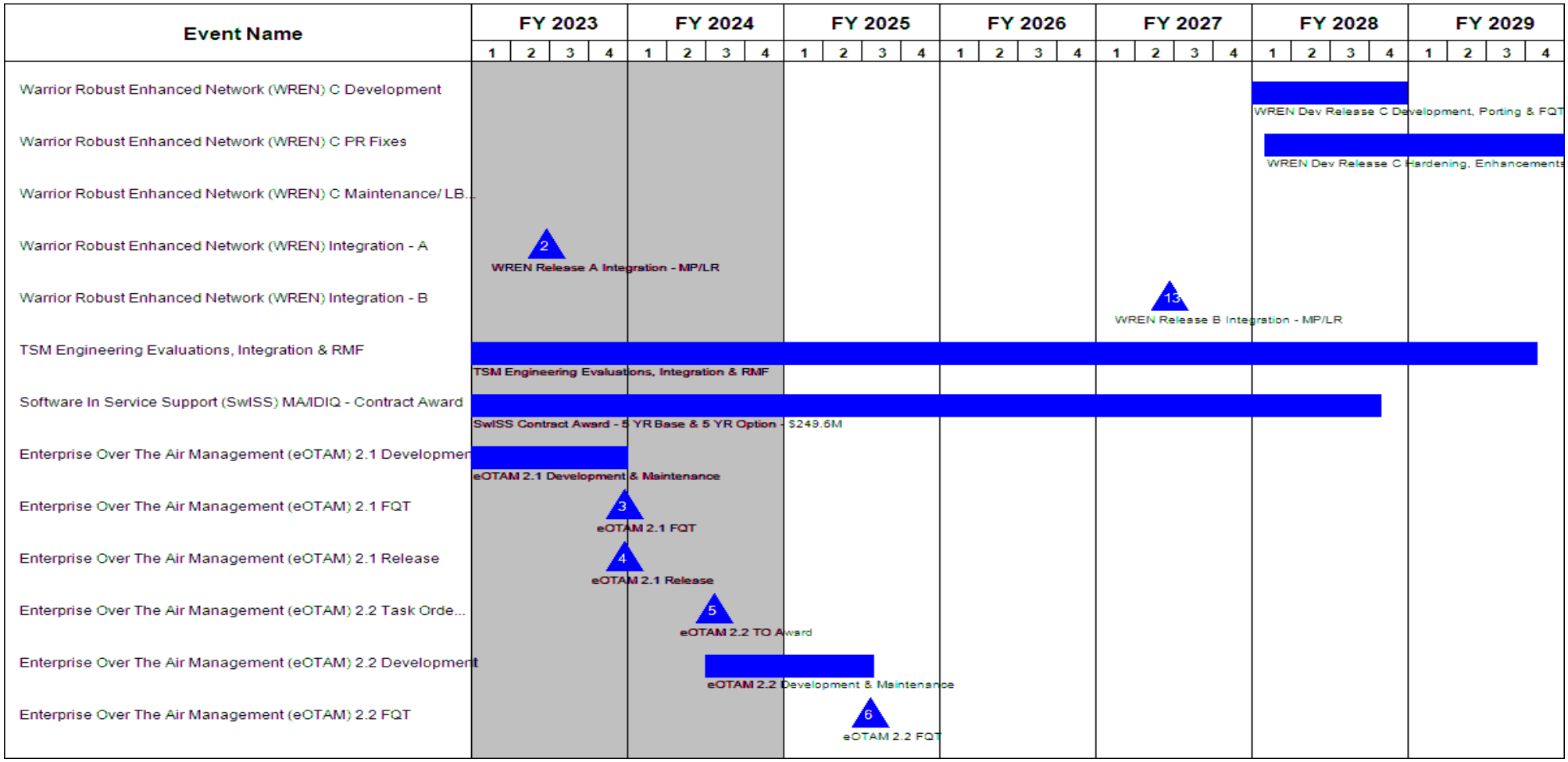


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EX6 / *Waveforms*

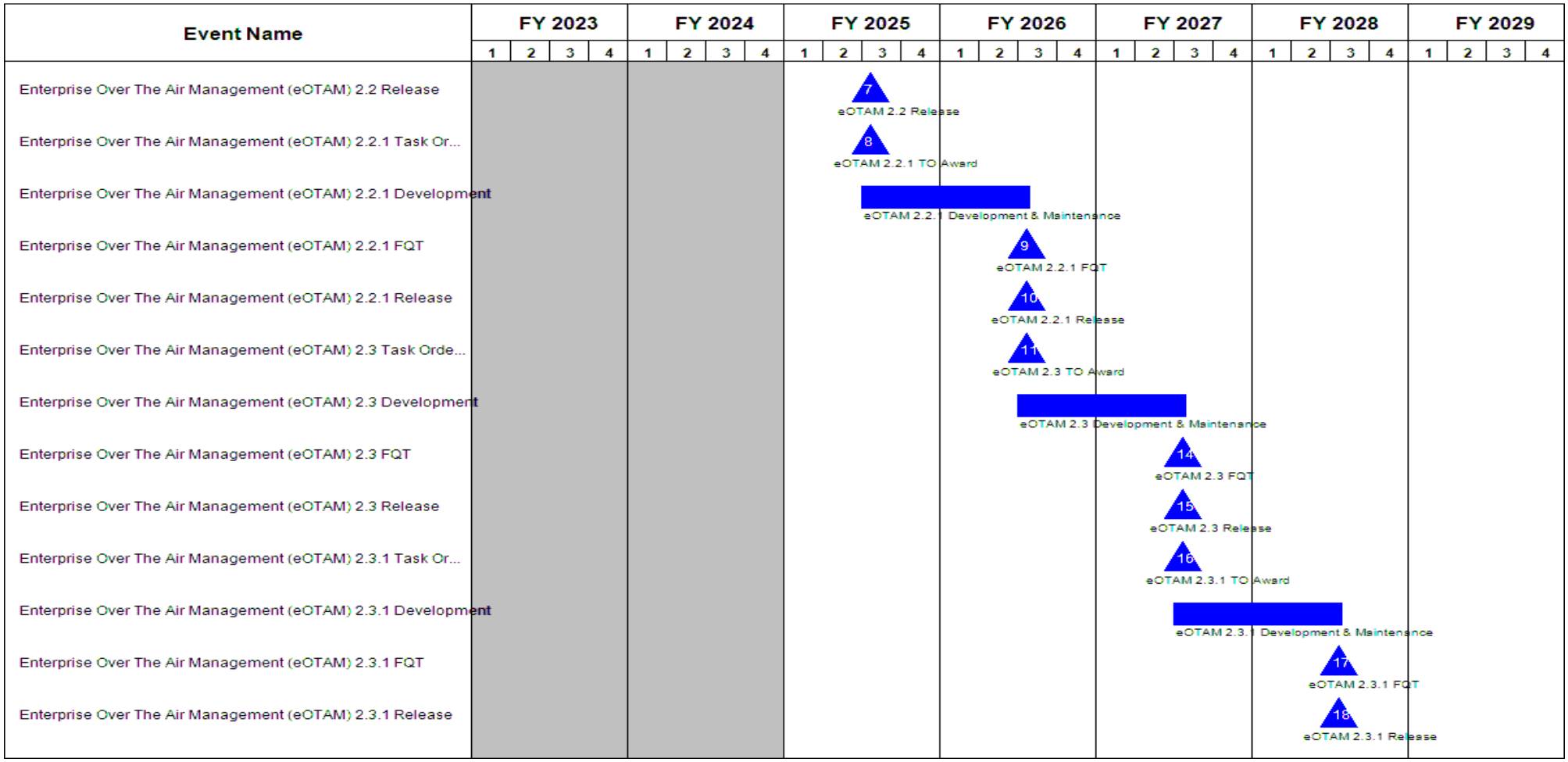


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EX6 / *Waveforms*

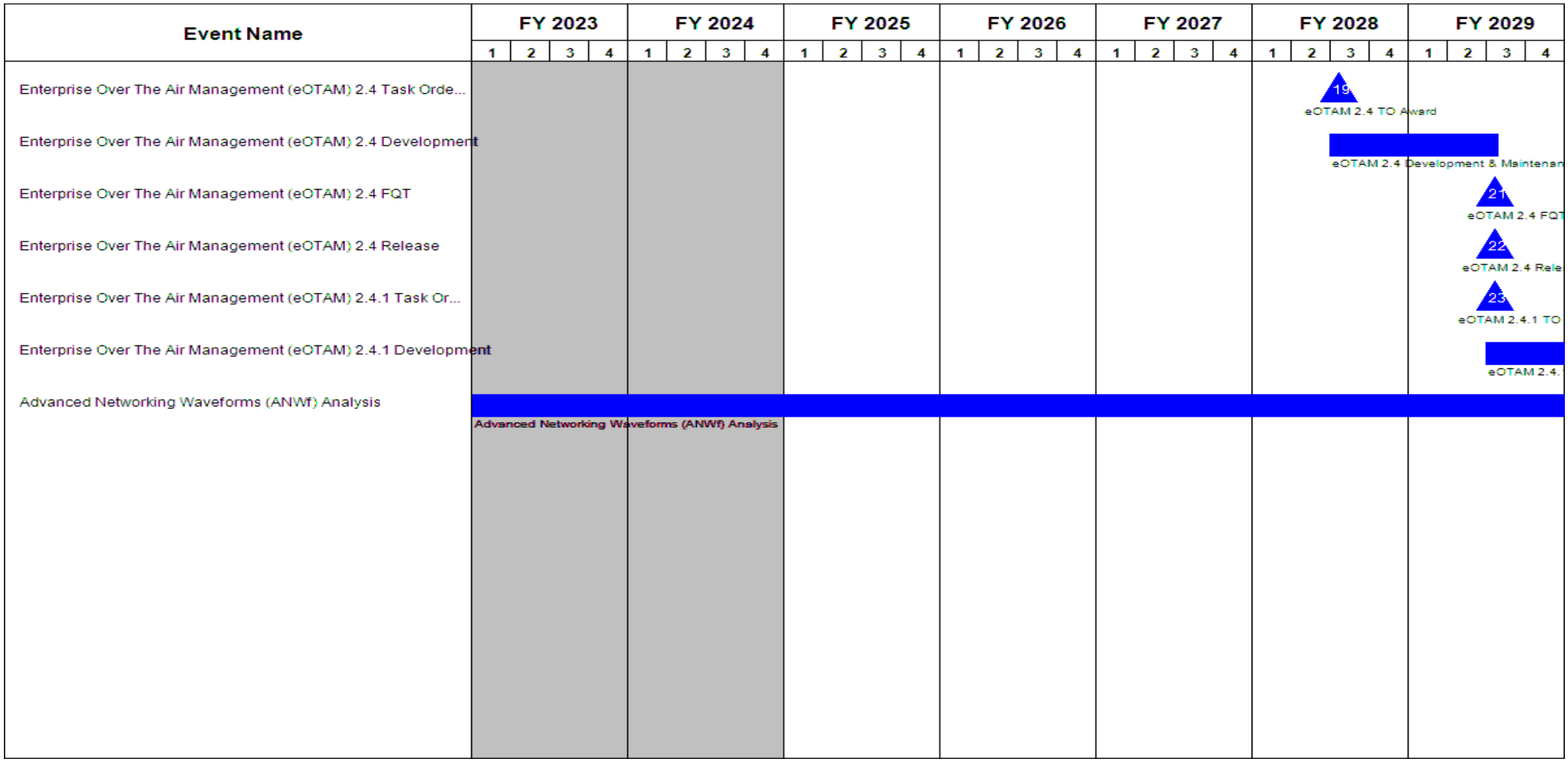


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EX6 / *Waveforms*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
SINCGARS 3.1.1 Waveform	1	2022	1	2022
SINCGARS Engineering and Technical Support (SINCRIL)	1	2023	4	2033
SINCGARS Frequency Hopping (FH)4 Waveform Development	3	2025	2	2028
SINCGARS FH4 Waveform Integration & Test	2	2027	3	2028
SINCGARS FH4 FQT	3	2028	3	2028
SINCGARS FH4 Release	4	2028	4	2028
SINCGARS FH5 Waveform Development	3	2028	2	2031
SINCGARS FH5 Waveform Integration & Test	2	2030	3	2031
SINCGARS FH5 FQT	3	2031	3	2031
SINCGARS FH5 Release	4	2031	4	2031
WREN/TSM Engineering and Technical Support (WRENRIL)	1	2023	4	2033
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 Release	1	2023	1	2023
Warrior Robust Enhanced Network (WREN) B Development	1	2023	4	2024
Warrior Robust Enhanced Network (WREN) B PR Fixes	1	2024	1	2026
Warrior Robust Enhanced Network (WREN) B Maintenance/ LBRR/ FBRR	1	2026	4	2028
Warrior Robust Enhanced Network (WREN) B Release	1	2027	1	2027
Warrior Robust Enhanced Network (WREN) C Development	1	2028	4	2028
Warrior Robust Enhanced Network (WREN) C PR Fixes	1	2028	1	2030
Warrior Robust Enhanced Network (WREN) C Maintenance/ LBRR/ FBRR	1	2030	4	2032
Warrior Robust Enhanced Network (WREN) C Release	1	2031	1	2031

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EX6 / *Waveforms*

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Warrior Robust Enhanced Network (WREN) Integration - A	2	2023	2	2023
Warrior Robust Enhanced Network (WREN) Integration - B	2	2027	2	2027
Warrior Robust Enhanced Network (WREN) Integration - C	2	2031	2	2031
TSM Engineering Evaluations, Integration & RMF	2	2022	4	2029
Software In Service Support (SwISS) MA/IDIQ - Contract Award	4	2018	4	2028
Enterprise Over The Air Management (eOTAM) 2.0 Release	1	2021	1	2021
Enterprise Over The Air Management (eOTAM) 2.1 Task Order Award	4	2022	4	2022
Enterprise Over The Air Management (eOTAM) 2.1 Development	4	2022	4	2023
Enterprise Over The Air Management (eOTAM) 2.1 FQT	4	2023	4	2023
Enterprise Over The Air Management (eOTAM) 2.1 Release	4	2023	4	2023
Enterprise Over The Air Management (eOTAM) 2.2 Task Order Award	3	2024	3	2024
Enterprise Over The Air Management (eOTAM) 2.2 Development	3	2024	3	2025
Enterprise Over The Air Management (eOTAM) 2.2 FQT	3	2025	3	2025
Enterprise Over The Air Management (eOTAM) 2.2 Release	3	2025	3	2025
Enterprise Over The Air Management (eOTAM) 2.2.1 Task Order Award	3	2025	3	2025
Enterprise Over The Air Management (eOTAM) 2.2.1 Development	3	2025	3	2026
Enterprise Over The Air Management (eOTAM) 2.2.1 FQT	3	2026	3	2026
Enterprise Over The Air Management (eOTAM) 2.2.1 Release	3	2026	3	2026
Enterprise Over The Air Management (eOTAM) 2.3 Task Order Award	3	2026	3	2026
Enterprise Over The Air Management (eOTAM) 2.3 Development	3	2026	3	2027
Enterprise Over The Air Management (eOTAM) 2.3 FQT	3	2027	3	2027
Enterprise Over The Air Management (eOTAM) 2.3 Release	3	2027	3	2027
Enterprise Over The Air Management (eOTAM) 2.3.1 Task Order Award	3	2027	3	2027
Enterprise Over The Air Management (eOTAM) 2.3.1 Development	3	2027	3	2028
Enterprise Over The Air Management (eOTAM) 2.3.1 FQT	3	2028	3	2028
Enterprise Over The Air Management (eOTAM) 2.3.1 Release	3	2028	3	2028

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605031A / *Joint Tactical Network (JTN)*	**Project (Number/Name)** EX6 / *Waveforms*

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Enterprise Over The Air Management (eOTAM) 2.4 Task Order Award	3	2028	3	2028
Enterprise Over The Air Management (eOTAM) 2.4 Development	3	2028	3	2029
Enterprise Over The Air Management (eOTAM) 2.4 FQT	3	2029	3	2029
Enterprise Over The Air Management (eOTAM) 2.4 Release	3	2029	3	2029
Enterprise Over The Air Management (eOTAM) 2.4.1 Task Order Award	3	2029	3	2029
Enterprise Over The Air Management (eOTAM) 2.4.1 Development	3	2029	3	2030
Enterprise Over The Air Management (eOTAM) 2.4.1 FQT	3	2030	3	2030
Enterprise Over The Air Management (eOTAM) 2.4.1 Release	3	2030	3	2030
Advanced Networking Waveforms (ANWf) Analysis	1	2021	4	2030

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605035A / *Common Infrared Countermeasures (CIRCM)*

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	9.602	11.509	11.691	-	11.691	11.360	12.052	12.292	12.415	0.000	80.921
EB4: *CIRCM*	-	9.602	11.509	11.691	-	11.691	11.360	12.052	12.292	12.415	0.000	80.921

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 were transferred 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. As of FY25, the ATW and JUONS RDT&E efforts have been completed and aircraft deployed with JUONS have been de-modified.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605035A / *Common Infrared Countermeasures (CIRCM)*

Fiscal Year (FY) 2025 Base Research, Development, Test, and Evaluation (RDTE) funding in the amount of $11.668 million will fund A-Kit development, integration and test activities on multi-variant platforms as well as threat and vulnerability analysis.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	11.523	11.509	5.679	-	5.679
Current President's Budget	9.602	11.509	11.691	-	11.691
Total Adjustments	-1.921	0.000	6.012	-	6.012
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-1.500	-			
• SBIR/STTR Transfer	-0.421	-			
• Adjustments to Budget Years	-	-	6.012	-	6.012

Change Summary Explanation

Increase due to resourcing the program's Full Rate Production (FRP) Army Cost Position (ACP).

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605035A / *Common Infrared Countermeasures (CIRCM)*				Project (Number/Name) EB4 / *CIRCM*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
EB4: *CIRCM*	-	9.602	11.509	11.691	-	11.691	11.360	12.052	12.292	12.415	0.000	80.921
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) 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 were transferred 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. As of FY25, the ATW and JUONS RDT&E efforts have been completed and aircraft deployed with JUONS have been de-modified.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605035A / *Common Infrared Countermeasures (CIRCM)*	**Project (Number/Name)** EB4 / *CIRCM*

FY 2025 Base Research, Development, Test, and Evaluation (RDTE) funding in the amount of $11.691 million will fund A-Kit development, integration and test activities on multi-variant platforms as well as threat and vulnerability analysis.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: CIRCM Product Development ***Description:*** CIRCM product development, support costs, & management services ***FY 2024 Plans:*** FY 2024 RDTE Base funding supports continuing A-Kit development, model based systems engineering, and integration activities for CH-47F. Additionally, funding supports preliminary analysis for integration of ASE systems on FVL FARA and FLRAA platforms. ***FY 2025 Plans:*** FY 2025 RDTE Base funding supports continuing A-Kit development, model-based systems engineering, integration activities for multiple platform variants, and additional B-Kit test Line Replaceable Units (LRU) to support development/testing activities. Additionally, funding supports preliminary analysis for integration of ASE systems on FVL platforms. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding change is consistent with the planned lifecycle of this effort	4.570	5.956	5.831
Title: CIRCM Test & Evaluation (T&E) ***Description:*** CIRCM T&E activities ***FY 2024 Plans:*** FY 2024 RDTE Base funding supports A-Kit Integration testing for the continued work on CH-47F, as well as jamcode and software improvement testing. Supports continuing Threat & Vulnerability Analysis. ***FY 2025 Plans:*** FY 2025 RDTE Base funding supports A-Kit Integration testing for the continued work on multiple platforms, as well as jamcode and software improvement testing. Supports continuing Threat & Vulnerability Analysis. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding change is consistent with the planned lifecycle of this effort	5.032	5.553	5.860
Accomplishments/Planned Programs Subtotals	9.602	11.509	11.691

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605035A / *Common Infrared Countermeasures (CIRCM)*	**Project (Number/Name)** EB4 / *CIRCM*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• AZ3537: *Common Infrared Countermeasures (CIRCM)*	272.262	261.384	257.854	-	257.854	251.838	251.605	251.155	253.671	2,075.106	3,874.875

Remarks

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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605035A / *Common Infrared Countermeasures (CIRCM)*	Project (Number/Name) EB4 / *CIRCM*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering Program Management	Various	Various : -	34.522	1.300	Nov 2022	1.032	Nov 2023	1.070	Nov 2024	-		1.070	Continuing	Continuing	Continuing
		Subtotal	34.522	1.300		1.032		1.070		-		1.070	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Non-recurring Engineering (NRE) - Multi Platform A-Kit Development & Integration	C/CPFF	Various : -	111.776	3.091	Jun 2023	3.184	Jun 2024	2.590	Jun 2025	-		2.590	Continuing	Continuing	Continuing
Other - Threat Management	Various	Various : -	38.730	0.600		1.740		2.171		-		2.171	Continuing	Continuing	Continuing
		Subtotal	150.506	3.691		4.924		4.761		-		4.761	Continuing	Continuing	N/A

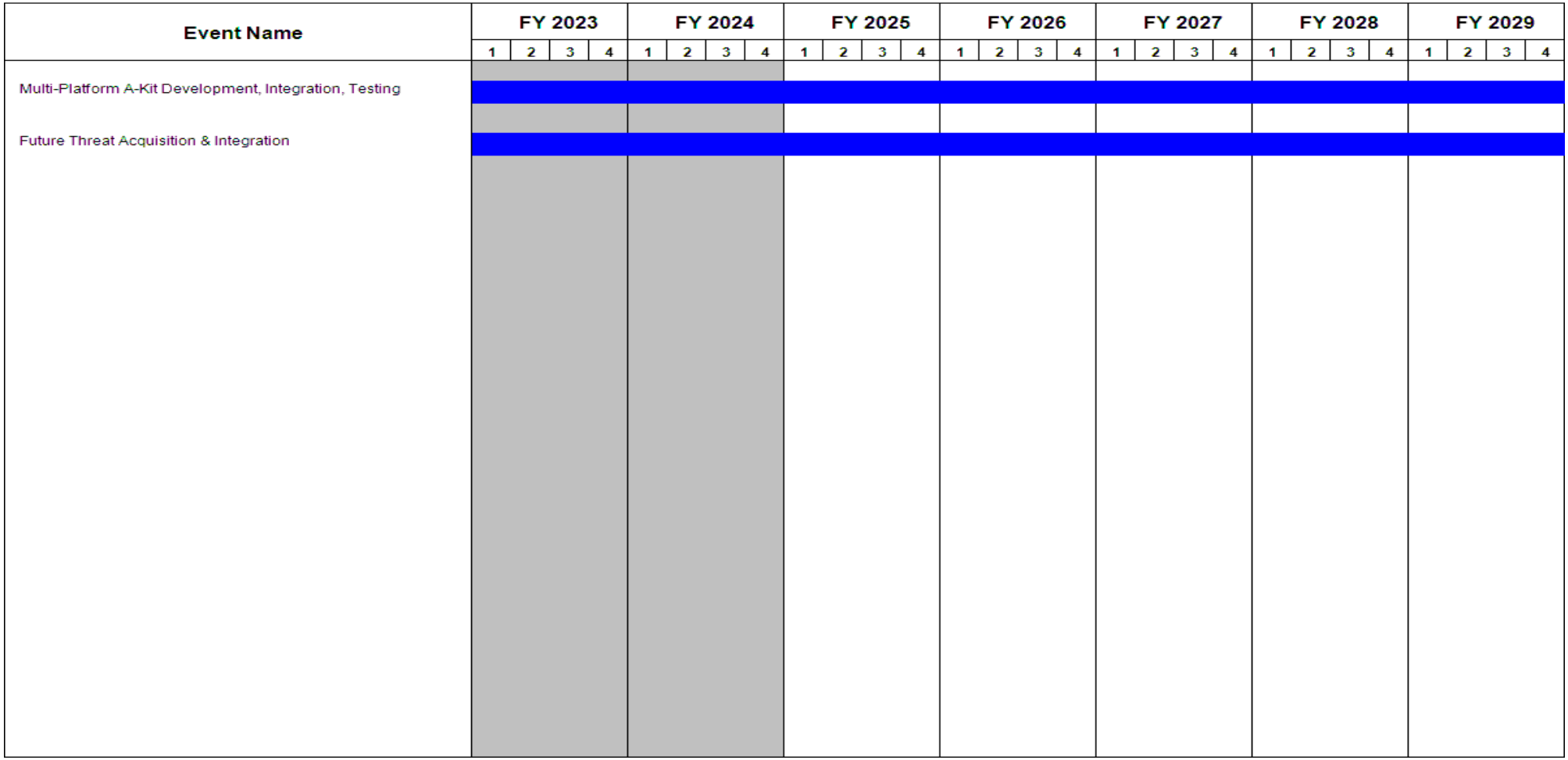
Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government System Test and Evaluation	Various	Various : -	155.391	3.611	Apr 2023	5.553	Apr 2024	5.860	Apr 2025	-		5.860	Continuing	Continuing	Continuing
Other Testing - Test Support	Various	Various : -	38.682	1.000		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	194.073	4.611		5.553		5.860		-		5.860	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	379.101	9.602		11.509		11.691		-		11.691	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605035A / *Common Infrared Countermeasures (CIRCM)*	**Project (Number/Name)** EB4 / *CIRCM*



Note

none

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605035A / *Common Infrared Countermeasures (CIRCM)*	**Project (Number/Name)** EB4 / *CIRCM*

Schedule Details

	Start		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	2050

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605036A / *Combating Weapons of Mass Destruction (CWMD)*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	-	1.050	7.846	-	7.846	10.584	10.696	10.816	10.924	0.000	51.916
EQ5: *Combating Weapons of Mass Destruction (CWMD)*	-	-	1.050	7.846	-	7.846	10.584	10.696	10.816	10.924	0.000	51.916

A. Mission Description and Budget Item Justification

The Combating Weapons of Mass Destruction (CWMD) line supports test and evaluation efforts for overall chemical, radiological, and biological detection and protection for the warfighter for multiple programs of record, including the Advanced Radiological, Nuclear Detection Family of Systems (ARND FoS) and the Chemically Protected Deployable Medical System (CP DEPMEDS).

The ARND FoS will provide an enhanced standoff, " wide area/networked" detection capability to produce a radiological nuclear site picture depicting radiological hot spots and facilitating the detection of high priority areas of "interest/focus" on an objective. In FY25, ARND FoS will award initial contracts for test articles and "plan/conduct" test events.

The CP DEPMEDS program procures equipment to provide chemical and biological protection to US Army Role 3 field hospitals. CP DEPMEDS RDTE BA5 funding discontinues after FY24 to transition to procurement.

FY25 Base amount of $7.830 million supports ARND FoS.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	0.000	1.050	8.696	-	8.696
Current President's Budget	0.000	1.050	7.846	-	7.846
Total Adjustments	0.000	0.000	-0.850	-	-0.850
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.850	-	-0.850

Change Summary Explanation

Program decrease due to realignment in support of CBRN water hauler effort.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605036A / *Combating Weapons of Mass Destruction (CWMD)*	Project (Number/Name) EQ5 / *Combating Weapons of Mass Destruction (CWMD)*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EQ5: *Combating Weapons of Mass Destruction (CWMD)*	-	-	1.050	7.846	-	7.846	10.584	10.696	10.816	10.924	0.000	51.916
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Combating Weapons of Mass Destruction (CWMD) line supports test and evaluation efforts for overall chemical, radiological, and biological detection and protection for the warfighter for multiple programs of record.

The Advanced Radiological, Nuclear Detection Family of Systems (ARND FoS) will provide an enhanced standoff, wide area/ networked detection capability to produce a radiological nuclear site picture depicting radiological hot spots and facilitating the detection of high priority areas of interest/focus on an objective. In FY25, ARND FoS will award initial contracts for test articles and plan/conduct test events.

The Chemically Protected Deployable Medical System (CP DEPMEDS) program procures equipment to provide chemical and biological protection to US Army Role 3 field hospitals. CP DEPMEDS RDTE BA5 funding discontinues after FY24 to transition to procurement.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: FY24 Combating Weapons of Mass Destruction	-	1.050	7.846
FY 2024 Plans: ARND FoS new start program will use FY24 (679K) funding for the following activities. Develop ACQ strategy and program documentation. Conduct market survey. Develop contracting package. CP DEPMEDS program will use FY24 (371K) funding for the following activities. Develop Logistics Documentation.			
FY 2025 Plans: ARND FoS will use FY25 ($7.830M) funding for the following activities: Award initial contract for test articles. Planning / conducting test events. Support logistics development.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605036A / *Combating Weapons of Mass Destruction (CWMD)*	**Project (Number/Name)** EQ5 / *Combating Weapons of Mass Destruction (CWMD)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Increase is funding in FY25 in line with program schedule requirements; the ARND FoS program will require increase in funding for initial contract award and other program schedule requirements.			
Accomplishments/Planned Programs Subtotals	-	1.050	7.846

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

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 capability production document. The program management office 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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605036A / *Combating Weapons of Mass Destruction (CWMD)*	Project (Number/Name) EQ5 / *Combating Weapons of Mass Destruction (CWMD)*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management (ARND FoS)	TBD	Various : Various	-	-		0.200	Jan 2024	0.983	Jan 2025	-		0.983	0.000	1.183	-
		Subtotal	-	-		0.200		0.983		-		0.983	0.000	1.183	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product System Development (ARND FoS)	TBD	To be determined : Various	-	-		-		5.713	Jun 2025	-		5.713	0.000	5.713	-
		Subtotal	-	-		-		5.713		-		5.713	0.000	5.713	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total 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	0.400	Jan 2025	-		0.400	0.000	0.779	-
Logistics (ARND FoS)	TBD	Various : Various	-	-		0.050	Jan 2024	0.250	Jan 2025	-		0.250	0.000	0.300	-
Logistics (CP DEPMEDS)	TBD	Various : Various	-	-		0.371	Jan 2024	-		-		-	0.000	0.371	-
		Subtotal	-	-		0.800		0.650		-		0.650	0.000	1.450	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
DT&E (ARND FoS)	TBD	ATEC : Aberdeen Proving Ground, MD	-	-		0.050	Jan 2024	0.500	Jan 2025	-		0.500	0.000	0.550	-
		Subtotal	-	-		0.050		0.500		-		0.500	0.000	0.550	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605036A / *Combating Weapons of Mass Destruction (CWMD)*	Project (Number/Name) EQ5 / *Combating Weapons of Mass Destruction (CWMD)*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		1.050		7.846		-		7.846	0.000	8.896	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605036A / *Combating Weapons of Mass Destruction (CWMD)*	**Project (Number/Name)** EQ5 / *Combating Weapons of Mass Destruction (CWMD)*

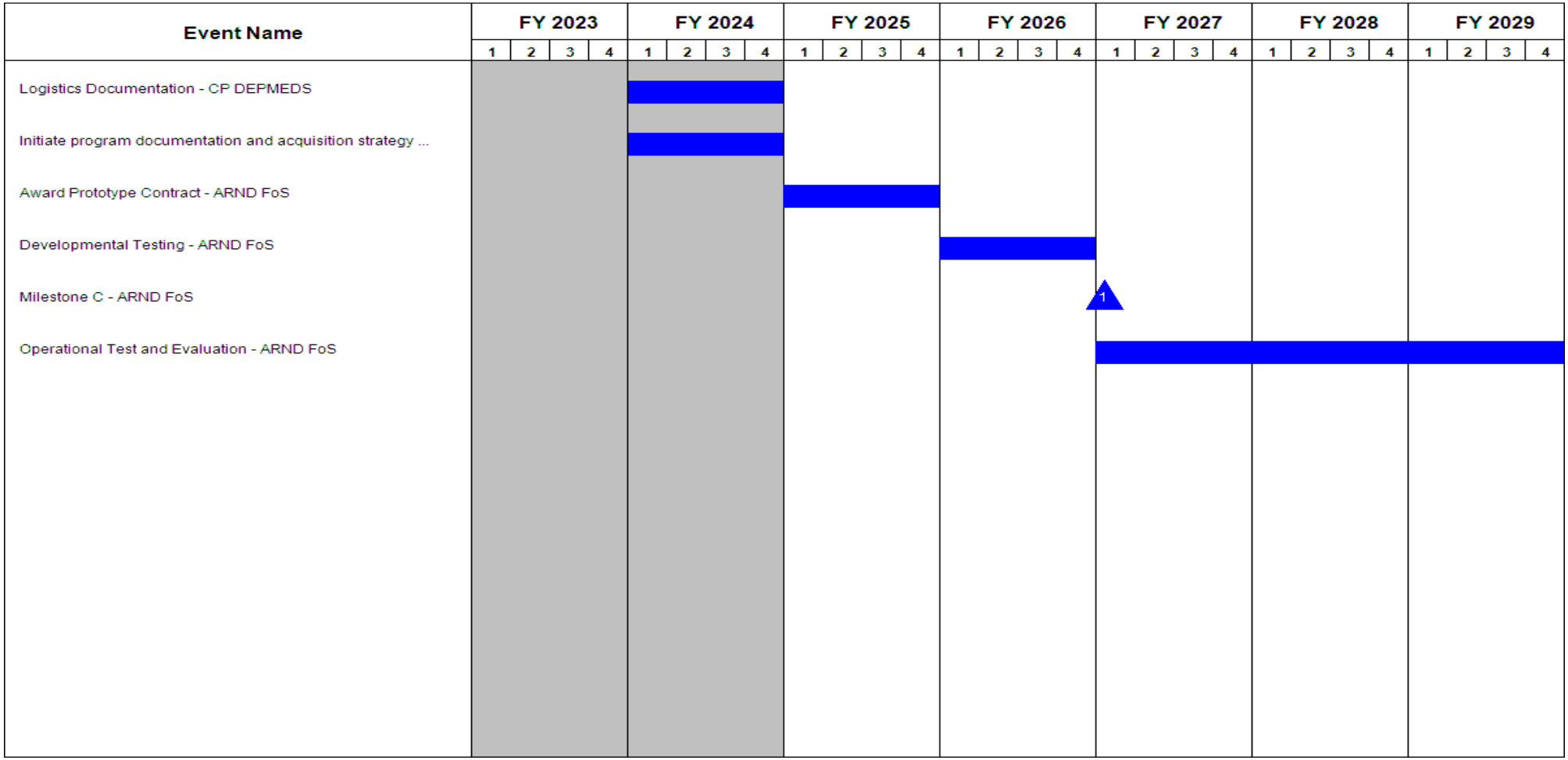


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605036A / *Combating Weapons of Mass Destruction (CWMD)*	**Project (Number/Name)** EQ5 / *Combating Weapons of Mass Destruction (CWMD)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
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
Operational Test and Evaluation - ARND FoS	1	2027	4	2029

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

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	-	-	7.886	-	7.886	13.801	13.807	-	-	0.000	35.494
EQ7: *NBC Reconnaissance Vehicle (NBCRV) Sensor Suite*	-	-	-	7.886	-	7.886	13.801	13.807	-	-	0.000	35.494

Note

Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite is a new start in FY 2025.

A. Mission Description and Budget Item Justification

Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU) provides maneuver formations the ability to conduct mounted Chemical Biological Radiological and Nuclear (CBRN) reconnaissance and surveillance. The NBCRV SSU will answer the commander's priority intelligence requirements & facilitate proactive risk-based decisions, to ensure freedom of action and maintain maneuver momentum in Large Scale Combat Operations. NBCRV SSU is an Aquisition Category (ACAT) II modification work order (MWO) effort to modernize the current NBCRV Sensor Suite to increase maintainability, reliability, maneuverability of the force, and standoff distance from the threat, via enhanced CBRN standoff capabilities & integrating onto robotics for manned and unmanned teaming.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	7.886	-	7.886
Total Adjustments	0.000	0.000	7.886	-	7.886
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	7.886	-	7.886

Change Summary Explanation

Increase due to Capability Set 2.2 (CS2.2) non-recurring engineering integration and testing activities in FY25-FY27.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605038A / *Nuclear Biological Chemica l Reconnaissance Vehicle (NBCRV) Sensor Suite*	Project (Number/Name) EQ7 / *NBC Reconnaissance Vehicle (NBCRV) Sensor Suite*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EQ7: *NBC Reconnaissance Vehicle (NBCRV) Sensor Suite*	-	-	-	7.886	-	7.886	13.801	13.807	-	-	0.000	35.494
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

NBC Reconnaissance Vehicle (NBCRV) Sensor Suite is a new start within the Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite program in FY 2025.

A. Mission Description and Budget Item Justification

Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU) provides maneuver formations the ability to conduct mounted Chemical Biological Radiological and Nuclear (CBRN) reconnaissance and surveillance. The NBCRV SSU will answer the commander's priority intelligence requirements & facilitate proactive risk-based decisions, to ensure freedom of action and maintain maneuver momentum in Large Scale Combat Operations. NBCRV SSU is an Acquisition Category (ACAT) II modification work order (MWO) effort to modernize the current NBCRV Sensor Suite to increase maintainability, reliability, maneuverability of the force, and standoff distance from the threat, via enhanced CBRN standoff capabilities & integrating onto robotics for manned and unmanned teaming. In FY25, the program will complete integration of Capability Set 2.2 (CS2.2) Sensor Suite and initiate CS2.2 developmental and operational testing.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: NBCRV SSU	-	-	7.886
FY 2025 Plans: Complete integration of Capability Set 2.2 (CS2.2) sensor suite, and initiate CS2.2 developmental and operational testing. Continue program office management and administration processes to include but not limited to program oversight, resource justification, budgeting and programming, milestone and schedule tracking.			
FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to Capability Set 2.2 (CS2.2) non-recurring engineering integration and testing activities in FY25-FY27			
Accomplishments/Planned Programs Subtotals	-	-	7.886

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605038A / *Nuclear Biological Chemica l Reconnaissance Vehicle (NBCRV) Sensor Suite*	**Project (Number/Name)** EQ7 / *NBC Reconnaissance Vehicle (NBCRV) Sensor Suite*

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 Capability Set 2.2 (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 December 2023, to inform a CS2.1 Materiel Release Decision in FY24. The NBCRV SSU program will receive CS2.2 systems in FY25, followed by testing in FY25 through FY27 to inform the CS2.2 Materiel Release Decision in FY27.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605038A / *Nuclear Biological Chemica l Reconnaissance Vehicle (NBCRV) Sensor Suite*	Project (Number/Name) EQ7 / *NBC Reconnaissance Vehicle (NBCRV) Sensor Suite*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Program Management	MIPR	JPEO CBRND : Edgewood, MD	-	-		-		0.767		-		0.767	0.000	0.767	-
		Subtotal	-	-		-		0.767		-		0.767	0.000	0.767	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CS2.2 Integration Contract	C/FFP	TBD : TBD	-	-		-		5.116		-		5.116	0.000	5.116	-
		Subtotal	-	-		-		5.116		-		5.116	0.000	5.116	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Testing CS2.2	MIPR	Various : Various	-	-		-		2.003		-		2.003	0.000	2.003	-
		Subtotal	-	-		-		2.003		-		2.003	0.000	2.003	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		7.886		-		7.886	0.000	7.886	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605038A / *Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite*	**Project (Number/Name)** EQ7 / *NBC Reconnaissance Vehicle (NBCRV) Sensor Suite*

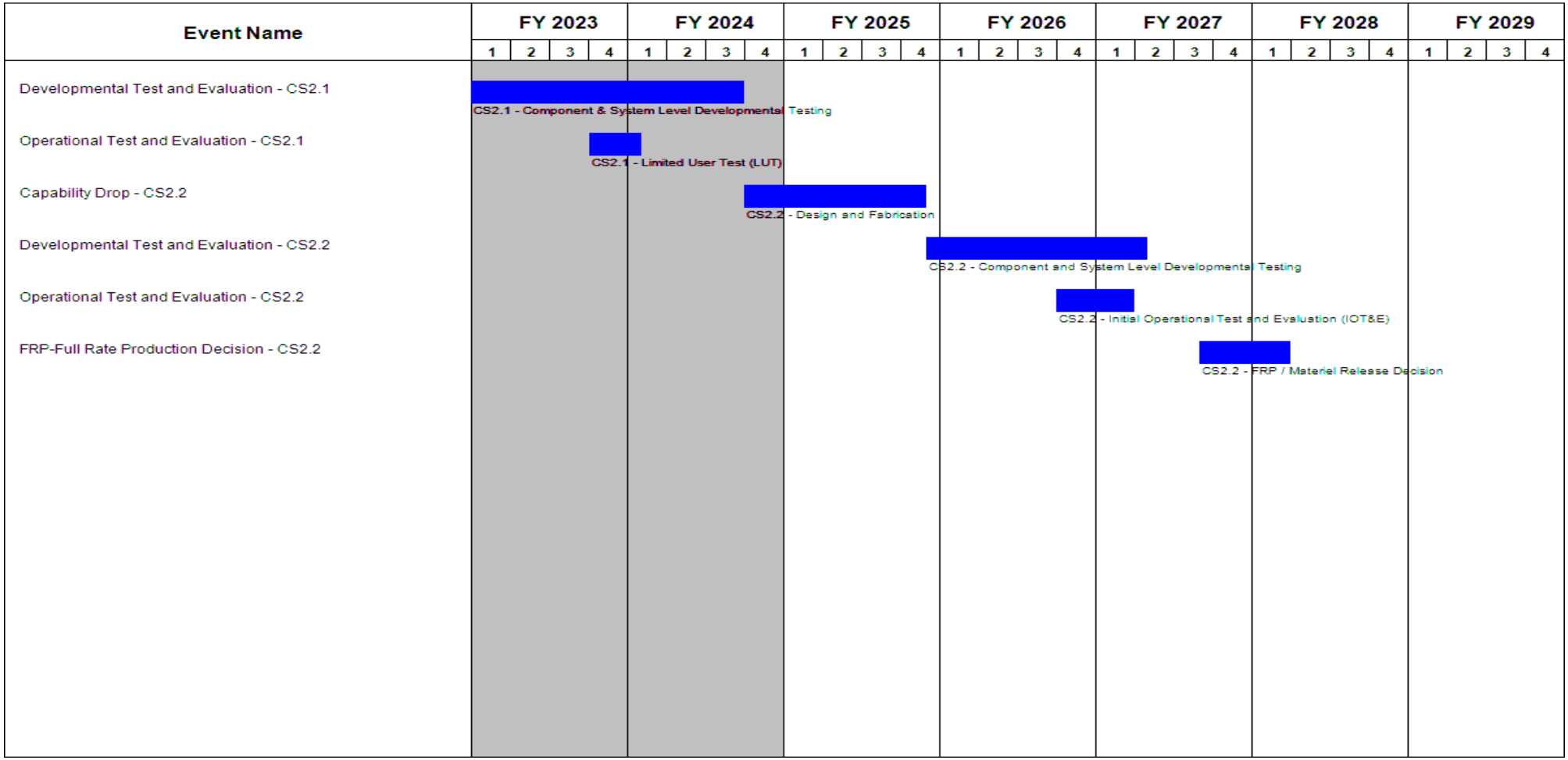


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605038A / *Nuclear Biological Chemica l Reconnaissance Vehicle (NBCRV) Sensor Suite*	**Project (Number/Name)** EQ7 / *NBC Reconnaissance Vehicle (NBCRV) Sensor Suite*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Developmental Test and Evaluation - CS2.1	4	2021	3	2024
Operational Test and Evaluation - CS2.1	4	2023	1	2024
Capability Drop - CS2.2	4	2024	4	2025
Developmental Test and Evaluation - CS2.2	4	2025	2	2027
Operational Test and Evaluation - CS2.2	4	2026	1	2027
FRP-Full Rate Production Decision - CS2.2	3	2027	1	2028

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605041A *I Defensive CYBER Tool Development*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	33.029	27.714	4.176	-	4.176	4.261	4.146	4.193	4.235	0.000	81.754
CY5: *CYBER Situational Understanding*	-	21.125	16.581	-	-	-	-	-	-	-	0.000	37.706
EV5: *Defensive CYBER Operations*	-	5.477	5.128	-	-	-	-	-	-	-	0.000	10.605
XU3: *Tactical DCO-I*	-	6.427	6.005	4.176	-	4.176	4.261	4.146	4.193	4.235	0.000	33.443

Note

These funding lines are directly aligned to the Army Network Modernization Priority. Cyber Situational Understanding (Cyber SU) funding line supports the 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.

FY 2025 funding was realigned from PE 0605041A Project EV5 Defensive Cyber Tool Development to BA-08 PE 0608041A Project CD1 Defensive Cyber Software Prototype Development.

A. Mission Description and Budget Item Justification

These funding lines are key enablers/direct supporters of the Army Modernization Strategy.

- 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. FY 2025 funding decrease due to program divestment.

- 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).

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605041A *I Defensive CYBER Tool Development*

- Tactical DCO-I (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 Network and will reside within the Command Post at the tactical level (up to Army Service Component Commands (ASCC)).

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	39.029	27.714	24.268	-	24.268
Current President's Budget	33.029	27.714	4.176	-	4.176
Total Adjustments	-6.000	0.000	-20.092	-	-20.092
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-6.000	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-20.092	-	-20.092

Change Summary Explanation

Decrease is due to realignment of $5.494 million to 0608041A Project CD1 Defensive Cyber Software Prototype Development and completion of planned efforts in Cyber Situational Understanding.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605041A / *Defensive CYBER Tool Development*				Project (Number/Name) CY5 / *CYBER Situational Understanding*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
CY5: *CYBER Situational Understanding*	-	21.125	16.581	-	-	-	-	-	-	-	0.000	37.706
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

The Cyber SU program responds to requirements in the program's validated Information System-Initial Capabilities Document (IS-ICD), further detailed in a Requirements Definition Package (RDP), valid for FY 2020 through FY2024. These requirements will not be revalidated for the Cyber SU program but will be subsumed as part of a broader effort currently under Army review. The Cyber SU software will be provided to the programs responsible for the updated requirements and the stand-alone Cyber SU program of record will be divested and the funding (starting in FY2025) will be realigned to other Army priorities.

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)/Tactical Services Infrastructure (TSI) infrastructure. 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 in the Army's Command Post. The underlying Cyber SU framework is also being leveraged by the US Air Force to ensure alignment with the 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, CPCE, Electronic Warfare Planning and Management Tool (EWPMT), Unified Network Operations (UNO), 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 continues to address the principal capability areas from its first Information Technology (IT) Box (FY2020 -FY2024), including See Yourself (Initial Capability), See Your Cyber Battlespace, and Understand Your Cyber Battlespace. Cyber SU Information Technology (IT) Box requirements will not be renewed.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** CY5 / *CYBER Situational Understanding*

To better meet Army needs, Cyber Electromagnetic Activity (CEMA) requirements captured in the Cyber SU IS-ICD are being subsumed into requirements documents for Informational Dimension, Electronic Warfare Planning & Management Tool (EWPMT) Next, the Unified Network Operations (UNO) Lower Tactical Tier (LTT) and Upper Tactical Tier (UTT) requirements; therefore, the Cyber SU IS-ICD will not be recertified for a follow-on IT Box (FY2025-2029).

Funding for the Cyber SU program is not required in FY2025 and beyond due to this change in how the Army is addressing these operational requirements and desired capabilities.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Development Engineering and Integration ***Description:*** Leverage industry developed prototype software, as well as ingest and synchronize cyber data from multiple Program of Record (PoRs) to develop and engineer the Cyber SU capability. ***FY 2024 Plans:*** FY 2024 funding supports the completion of development of systems engineering/ architecture products, middleware and back-end services required to establish the Cyber SU CD 2 capability. Funding also supports CD 2 post- test fix and integration to allow for the delivery of the Cyber SU CD 2 capability planned in 4QFY2024. 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 of multi- domain operations. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decrease due to completion of planned activities.	17.016	9.678	-
Title: Systems Test and Evaluation ***Description:*** Efforts include the planning and execution of T&E events including Developmental Test, Interoperability Testing, Software Acceptance Testing, Integration Events, Risk Reduction Events, and User Tests/Evaluations. ***FY 2024 Plans:*** FY 2024 funding will support continued developmental operations (DevOps) activities, developmental testing (DT), operational assessment (OA), interoperability testing, and cybersecurity assessments of the Cyber SU CD 2 capability. Funding also supports Army Test and Evaluation Command (ATEC) Army Evaluation Center (AEC) requirement for DT instrumentation. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decrease due to completion of planned activities.	1.332	3.591	-
Title: Training Development ***Description:*** The development of training support products, including coordination with US Army Training and Doctrine Command (TRADOC) US Army Cyber Command, PORs, and related organizations to develop applicable program of instruction.	0.815	1.540	-

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** CY5 / *CYBER Situational Understanding*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: FY 2024 funding provides for the completion of development of the New Equipment Training (NET) support package, verification/ validation, software user manuals/tech manuals and virtual training development for the FY2020-2024 IT Box. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decrease due to completion of planned activities.			
Title: Systems Engineering/Management ***Description:*** Systems Engineering/Management includes business, technical and logistical staff support and overall management of program execution, major events and reporting. ***FY 2024 Plans:*** FY 2024 funding provides for program office staff (matrix and contractor) continued program execution support and performance of duties necessary to plan and execute activities and milestone events to include the delivery of CD 2 in 4QFY2024. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decrease due to completion of planned activities.	1.962	1.772	-
Accomplishments/Planned Programs Subtotals	21.125	16.581	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

N/A

D. Acquisition Strategy

The Cyber SU Information System-Initial Capabilities Document (IS-ICD) 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 functional values.

Program Executive Office, Command, Control and Communications-Tactical, the Milestone Decision Authority, approved the Materiel Development Decision on 20 June 2018, designating Cyber SU as an Acquisition Category (ACAT) III program. Milestone B was approved on 8 April 2020.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** CY5 / *CYBER Situational Understanding*

On 4 October 2023, the Cyber Army Capability Manager directed the Program Office to begin the process to divest the Cyber SU program and future development of the Cyber SU product as the requirements will be subsumed within the Informational Dimension, Electronic Warfare Planning & Management Tool (EWPMT) Next, Unified Network Operations (UNO) LTT and UTT requirement documents.

Execution of the Cyber SU program is a combination of government entities and commercial vendors. The program awarded a competitive prototyping/development Other Transaction Authority (OTA) in 3QFY2020 to develop the initial Cyber SU capability. An OTA modification was awarded in June 2021, which extended the scope of the OTA to encompass See Your Cyber Battlespace and Understand Your Cyber Battlespace through Full Deployment FY2024. Program Office will facilitate the divestment of ongoing contract efforts beyond those that support delivery of the current build of Cyber SU software and support interfaced systems with the removal of Cyber SU software, as well as support the completion of training and engineering documentation of Government owned software.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** CY5 / *CYBER Situational Understanding*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering/ Management	Various	CACI; DEVCOM; CECOM : APG, MD	4.878	1.962	Mar 2023	1.772	Mar 2024	-		-		-	Continuing	Continuing	-
		Subtotal	4.878	1.962		1.772		-		-		-	Continuing	Continuing	N/A

Remarks

FY 2025 funding decrease due to program divestment.

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development	C/FFP	Research Innovations Inc (RII) : Alexandria, VA	39.331	11.357	Jan 2023	4.938	Nov 2023	-		-		-	Continuing	Continuing	-
Software Engineering	Various	CACI; DEVCOM DAC : APG, MD; Picatinny, NJ	3.728	2.117	Dec 2022	1.757	Dec 2023	-		-		-	Continuing	Continuing	-
Software Integration	Various	Various Matrix Orgs : APG, MD	6.494	3.077	Dec 2022	2.703	Dec 2023	-		-		-	Continuing	Continuing	-
Developmental Hardware and Software	C/Various	CHS; CHESS; DITCO : APG, MD; Ft. Belvoir, VA; Scott APB, IL	3.636	0.465	Jan 2023	0.280	Oct 2023	-		-		-	Continuing	Continuing	-
		Subtotal	53.189	17.016		9.678		-		-		-	Continuing	Continuing	N/A

Remarks

FY 2025 funding decrease due to program divestment.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A / *Defensive CYBER Tool Development*	Project (Number/Name) CY5 / *CYBER Situational Understanding*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Training Development	Various	DLA; Parsons; ILSC : Philadelphia, PA; APG, MD	0.989	0.815	Jun 2023	1.540	Jan 2024	-		-		-	Continuing	Continuing	-
		Subtotal	0.989	0.815		1.540		-		-		-	Continuing	Continuing	N/A

Remarks

FY 2025 funding decrease due to program divestment.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total 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	1.084	0.206	Dec 2022	2.115	Nov 2023	-		-		-	Continuing	Continuing	-
IA/Test Support	C/FFP	CACI : APG, MD	1.740	0.823	Dec 2022	1.109	Nov 2023	-		-		-	Continuing	Continuing	-
Cybersecurity Assessments	Various	DEVCOM DAC; TSMO : APG, MD; Redstone Arsenal, AL	1.006	0.303	Nov 2022	0.367	Nov 2023	-		-		-	Continuing	Continuing	-
		Subtotal	3.830	1.332		3.591		-		-		-	Continuing	Continuing	N/A

Remarks

FY 2025 funding decrease due to program divestment.

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	62.886	21.125		16.581		-		-		-	Continuing	Continuing	N/A

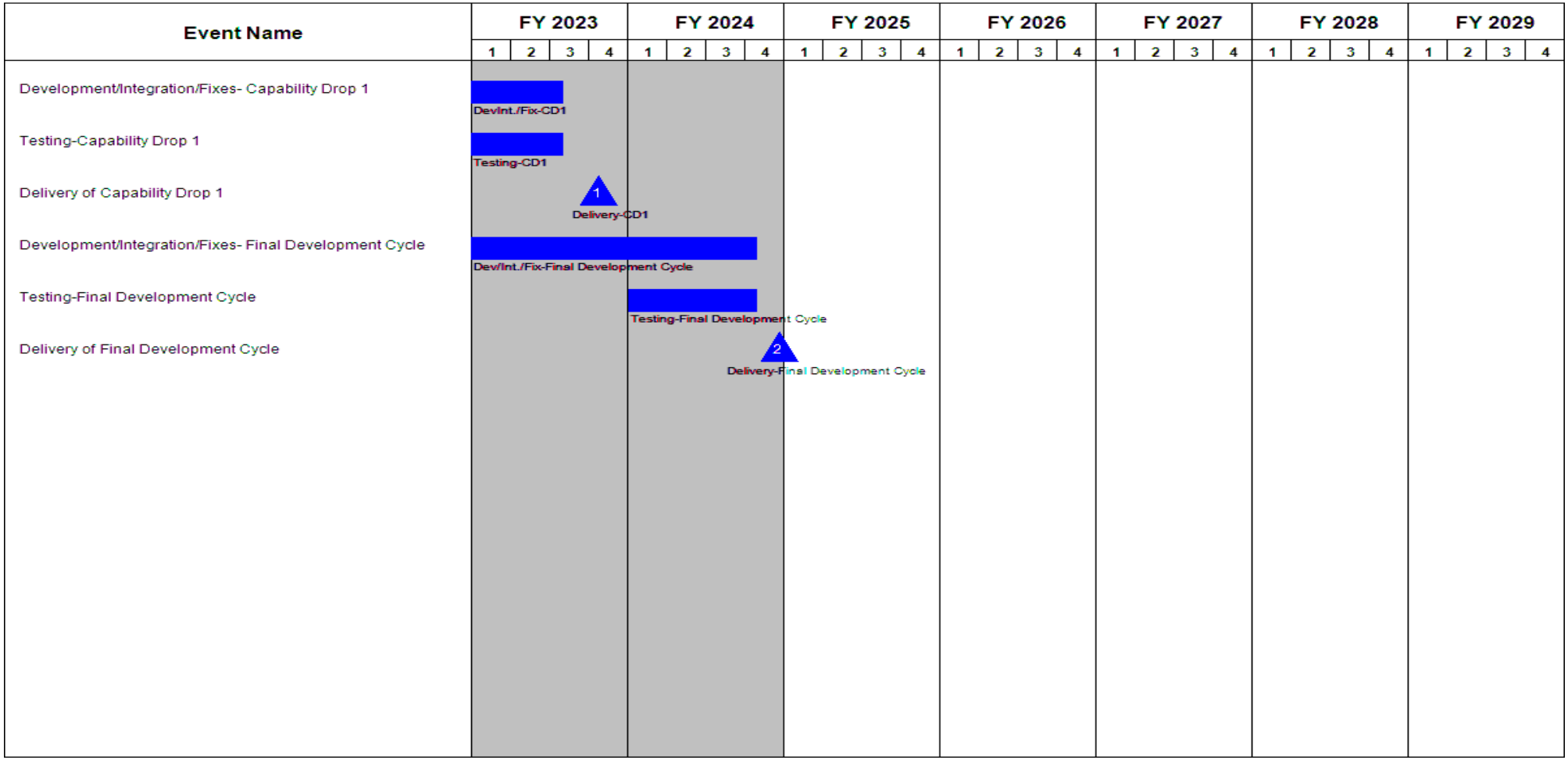
Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A / *Defensive CYBER Tool Development*	Project (Number/Name) CY5 / *CYBER Situational Understanding*	

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Cyber SU will be divested in beginning FY 2025.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** CY5 / *CYBER Situational Understanding*



Note

Cyber SU 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. Cyber SU delivery is defined as when Cyber SU provides the capability to CPCE/TSI to begin fielding.

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** CY5 / *CYBER Situational Understanding*

Schedule Details

	Start		End	
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- Final Development Cycle	4	2022	4	2024
Testing-Final Development Cycle	1	2024	4	2024
Delivery of Final Development Cycle	4	2024	4	2024

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A / *Defensive CYBER Tool Development*	Project (Number/Name) EV5 / *Defensive CYBER Operations*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EV5: *Defensive CYBER Operations*	-	5.477	5.128	-	-	-	-	-	-	-	0.000	10.605
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

FY 2025 funding was realigned from PE 0605041A Project EV5 Defensive Cyber Tool Development to BA-08 PE 0608041A Project CD1 Defensive Cyber Software Prototype Development.

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.

FY 2025 funding was realigned from PE 0605041A Project EV5 Defensive Cyber Tool Development to BA-08 PE 0608041A Project CD1 Defensive Cyber Software Prototype Development.

Defensive Cyber Tools and Analytics: DCO - DCO Development Environment (DCODE Forge)

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), and Cyber Protection Teams (CPTs) in COMPO 2/3.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: DCO - Development Environment (formerly Forge)	5.477	5.128	-
Description: DCO Development Environment (DCODE) (formerly Forge) is both physical and virtual assets that provides continual integration, upgrade, assessment, optimization in support of the warfighter's operational environment. Its purpose is to provide centralized lifecycle management and consist of the following capabilities: 1) the 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); 2) provides the capability for Cyber Protection Teams (CPTs) to remotely access multiple networks, simultaneously, thru a safe and secure infrastructure framework.			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** EV5 / *Defensive CYBER Operations*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
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 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding in the amount of $5.494 million was realigned from PE 0605041A Project EV5 Defensive Cyber Tool Development to BA-08 PE 0608041A Project CD1 Defensive Cyber Software Prototype Development.			
Accomplishments/Planned Programs Subtotals	5.477	5.128	-

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• B63103: *Advanced Cyber Tool Development*	-	13.848	0.000	-	0.000	-	-	-	-	Continuing	Continuing
• B66350: *ARCYBER DEFENSIVE CYBER OPERATIONS*	13.940	-	0.000	-	0.000	-	-	-	-	0.000	13.940
• B89001: *Insider Threat Program - Unit Activity Monitoring*	1.437	1.502	0.000	-	0.000	-	-	-	-	0.000	2.939
• 0608041A: *Defensive CYBER - Software Prototype Development*	92.460	83.570	74.548	-	74.548	80.023	80.554	80.747	80.752	0.000	572.654

Remarks

OPA PE B63103 - DCO hardware procurement, fielding, and equipment training for Garrison DCO Platform (GDP), Deployable Defensive Systems (DDS), and DCODE Armory.
OPA PE B66350 (New OPA budget line in FY2023 only) - DCO hardware procurement, fielding, and equipment training for GDP, DDS, and DCODE Armory.
OPA PE B89001 - DCO Insider Threat Program - Unit Activity Monitoring for UAM operations conducted in support of the Army's insider threat program.
RDTE PE 0608041A - Defensive Cyber Software Prototype Development.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** EV5 / *Defensive CYBER Operations*

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 Army Requirement Oversight Council Memorandum (AROCM) approved on 31 August 2023.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A / *Defensive CYBER Tool Development*	Project (Number/Name) EV5 / *Defensive CYBER Operations*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total 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	-		-		-	Continuing	Continuing	Continuing
		Subtotal	10.445	5.477		5.128		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	10.445	5.477		5.128		-		-		-	Continuing	Continuing	N/A

Remarks

FY 2025 funding in the amount of $5.494 million was realigned from PE 0605041A Project EV5 Defensive Cyber Tool Development to BA-08 PE 0608041A Project CD1 Defensive Cyber Software Prototype Development.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** EV5 / *Defensive CYBER Operations*

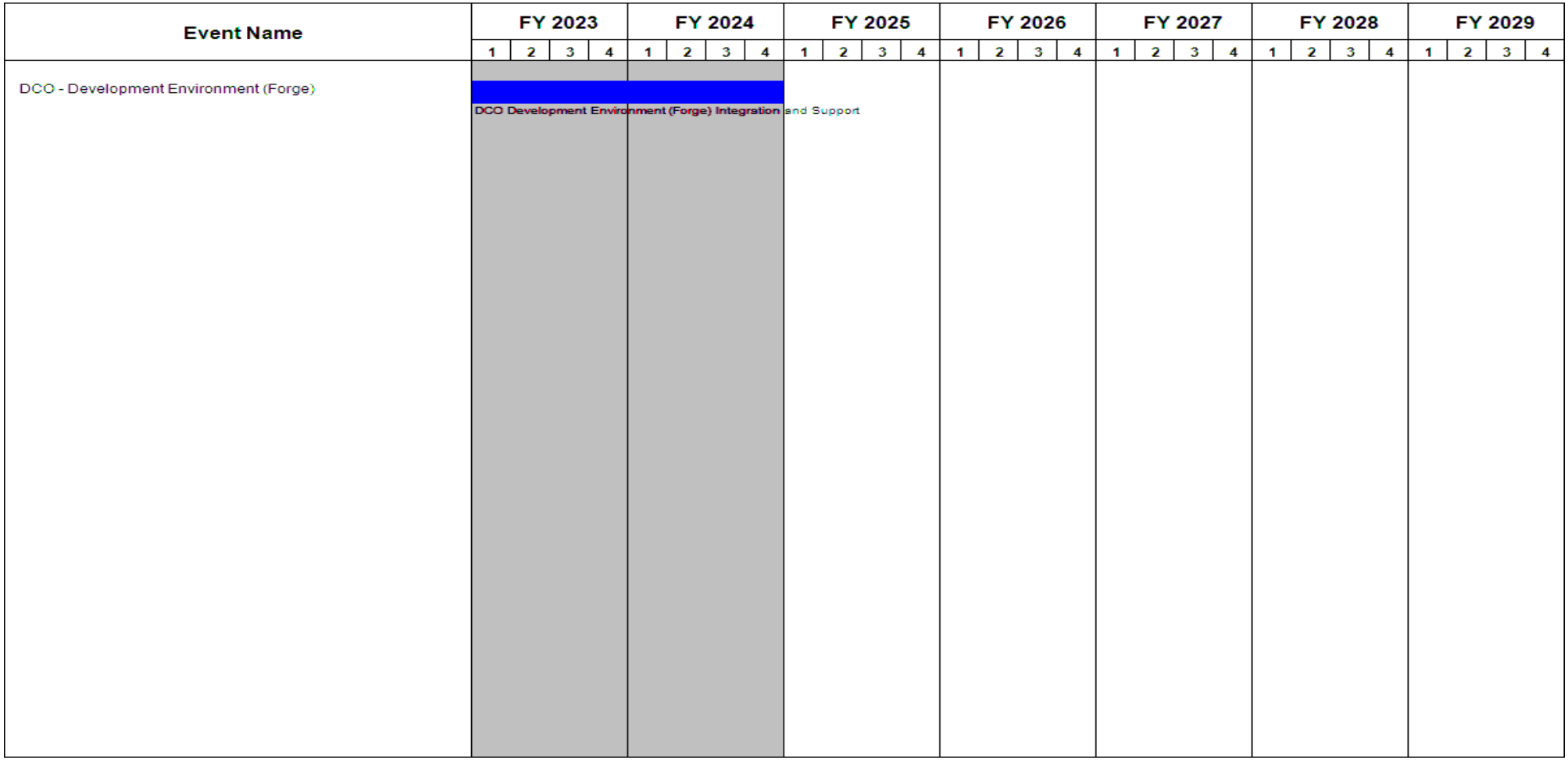


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** EV5 / *Defensive CYBER Operations*

Schedule Details

	Start		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 - Development Environment (Forge)	1	2019	4	2024

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A / *Defensive CYBER Tool Development*	Project (Number/Name) XU3 / *Tactical DCO-I*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
XU3: *Tactical DCO-I*	-	6.427	6.005	4.176	-	4.176	4.261	4.146	4.193	4.235	0.000	33.443
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

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

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 resides 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 (FY 2023-2027), TDI will develop Capability Releases (CR) (CR 1 - CR 4) to implement TDI software change activities and updates to provide value to Brigades to ASCCs. 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 2025 funding supports the completion of development, engineering, testing, training development, and program management for CR 2 and initiation of development and engineering for CR 3.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** XU3 / *Tactical DCO-I*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Development Engineering	4.213	4.059	2.415
Description: Efforts include development engineering and integration required for DCO tools to be utilized on the Tactical Network. ***FY 2024 Plans:*** FY2024 funding supports the completion of development engineering and integration of Capability Release 1 (CR 1) in support of 4QFY2024 delivery. 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. Funding will also support the continued development of CR 2 in support of FY 2025 delivery. 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. ***FY 2025 Plans:*** FY 2025 funding supports the completion of development engineering and integration of CR 2, including development engineering to collate and aggregate TDI data from various echelons; convergence with Tactical Data Fabric to align with Army Data Strategies, and implement Security Operations, Automated Response (SOAR). This will include updated security artifacts needed to process the Security Impact Assessment and maintain an Authority to Operate. In addition, development and integration efforts will begin for CR 3. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease due to reduced costs to the development engineering as it no longer requires automation across additional multiple Security Classification Domain Services.			
Title: Systems Test and Evaluation	0.842	0.993	1.082
Description: Efforts include the planning and execution of T&E events including Developmental Test, recurring developmental operations (DEVOPS) Soldier Touch Points, continuous Interoperability Testing, Software Acceptance Testing, Integration Events, Risk Reduction Events, Information Assurance, collaboration tool maintenance and User Tests/Evaluations. ***FY 2024 Plans:*** FY 2024 funding will allow for the operational testing and cybersecurity testing of the TDI CR 1 capability in order to support delivery in 4QFY2024. Funding will also support developmental testing of the TDI CR 2 capability. ***FY 2025 Plans:*** FY 2025 funding provides for the completion of developmental testing and operational testing and cybersecurity testing of the TDI CR 2 capability to support delivery in 4QFY2025. ***FY 2024 to FY 2025 Increase/Decrease Statement:***			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** XU3 / *Tactical DCO-I*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 to FY 2025 funding increase represents a minor increase due to economic assumptions.			
Title: Training Development ***Description:*** The development of training support products, including coordination with US Army Training and Doctrine Command (TRADOC) US Army Cyber Command, PORs, and related organizations to develop applicable program of instruction. ***FY 2024 Plans:*** FY 2024 funding provides for the development of the New Equipment Training (NET) support package to include verification/ validation, software user manuals/technical manuals and virtual training in support of TDI CR 2 delivery in FY 2025. ***FY 2025 Plans:*** FY 2025 funding provides for the development of the New Equipment Training (NET) support package to include verification/ validation, software user manuals/technical manuals and virtual training in support of TDI CR 3 delivery in FY2026. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease due to pivot to virtual training for the product updates.	0.767	0.521	0.294
Title: Systems Engineering/Management ***Description:*** Systems Engineering/Management includes business, technical and logistical staff support and overall management of program execution, major events and reporting. ***FY 2024 Plans:*** FY 2024 funding provides for program office staff (matrix and contractor) continued program execution support and to perform duties necessary to plan and execute activities and milestone events leading up to CR 1 delivery in 4QFY2024. ***FY 2025 Plans:*** FY 2025 funding provides for program office staff (matrix and contractor) continued program execution support, development, engineering, and to perform duties necessary to plan and execute activities and milestone events leading up to CR 2 delivery in 4QFY2025. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease due to reduction in support needed for Development Engineering activities.	0.605	0.432	0.385
Accomplishments/Planned Programs Subtotals	6.427	6.005	4.176

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** XU3 / *Tactical DCO-I*

C. Other Program Funding Summary ($ in Millions)

Remarks

D. Acquisition Strategy

The Milestone Decision Authority (MDA), approved the TDI Materiel Development Decision (MDD) on 13 April 2018, designating Tactical DCO Infrastructure (TDI) as an Acquisition Category (ACAT) III program. In July 2019, the MDA approved an execution strategy based on a tailored defense unique software intensive acquisition approach and designated the Full Deployment Decision (FDD) as the entry point into the acquisition life cycle. The FDD was approved on 30 September 2019. On 23 November 2021, the MDA re-designated TDI an ACAT IV program based on cost and low risk and complexity, and delegation MDA to the Project Manager (PM) Mission Command.

The TDI program requirements were approved under an Information Technology (IT) Box construct with a five (5) year term, with multiple capability deliveries expected within each IT Box. Full Deployment is defined as when TDI has completed the development and testing of the last capability release within the IT Box and has transferred that capability to the Command Post Computing Environment/Tactical Services Infrastructure (CPCE/TSI) program for fielding.

Full Deployment for the first IT Box (FY 2018-FY 2022), which consisted of three Capability Drops, was achieved with the delivery of CD 3.

IT Box #2 (FY 2023-FY 2027) consists of multiple Capability Releases (CRs) intended to implement TDI software change activities and updates aimed at providing value to Brigades - ASCCs more quickly. The CRs include software enhancements, and maintenance (defect repair, adaptations, updates, and reconfiguration) and 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 Big Data Platform (BDP) to initiate alignment with the Army's tactical data fabric efforts. CR 3 will leverage existing Artificial Intelligence/Machine Learning (AI/ML) models generated from BDP for the tactical edge. CR 4 will support capabilities and technologies to address emerging cyber threat and techniques, tactics, and procedures (TTPs).

TDI utilizes a combination of government entities and commercial vendors to develop and integrate software capabilities. TDI is hosted on the Tactical Server Infrastructure (TSI) and fielded by the CPCE/TSI program in accordance with the Army fielding schedule.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A / *Defensive CYBER Tool Development*	Project (Number/Name) XU3 / *Tactical DCO-I*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering/ Management	Various	CACI; CECOM : APG, MD	3.323	1.205	Dec 2022	0.432	Dec 2023	0.385	Dec 2024	-		0.385	Continuing	Continuing	-
		Subtotal	3.323	1.205		0.432		0.385		-		0.385	Continuing	Continuing	N/A

Remarks

Decrease due to reduction in support needed for Development Engineering activities.

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development	C/TBD	Contract will be re-competed through OTA : TBD	16.434	2.648	Mar 2023	2.773	Dec 2023	1.496	Dec 2024	-		1.496	Continuing	Continuing	-
Software Engineering	Various	CECOM; CACI; PEO C3T : APG, MD	5.078	1.472	Nov 2022	1.142	Nov 2023	0.668	Nov 2024	-		0.668	Continuing	Continuing	-
Developmental Hardware/ Software	Various	CHS;CHESS : Ft. Belvoir, VA	2.122	0.193	Jan 2023	0.144	Jan 2024	0.251	Jan 2025	-		0.251	Continuing	Continuing	-
		Subtotal	23.634	4.313		4.059		2.415		-		2.415	Continuing	Continuing	N/A

Remarks

Decrease due to reduced costs to the development engineering as it no longer requires automation across additional multiple Security Classification Domain Services.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Training Development	Various	DLA;ILSC : Philadelphia, PA; APG, MD	0.719	0.367	Jun 2023	0.521	Nov 2023	0.294	Nov 2024	-		0.294	Continuing	Continuing	-
		Subtotal	0.719	0.367		0.521		0.294		-		0.294	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605041A / *Defensive CYBER Tool Development*	Project (Number/Name) XU3 / *Tactical DCO-I*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Decrease due to pivot to virtual training for the product updates.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Test and Evaluation	Various	CACI; ATEC; CTSF : APG, MD; Ft. Hood TX	2.740	0.542	Dec 2022	0.993	Nov 2023	1.082	Nov 2024	-		1.082	Continuing	Continuing	-
		Subtotal	2.740	0.542		0.993		1.082		-		1.082	Continuing	Continuing	N/A

Remarks

Minor increase due to economic assumptions.

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	30.416	6.427		6.005		4.176		-		4.176	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** XU3 / *Tactical DCO-I*

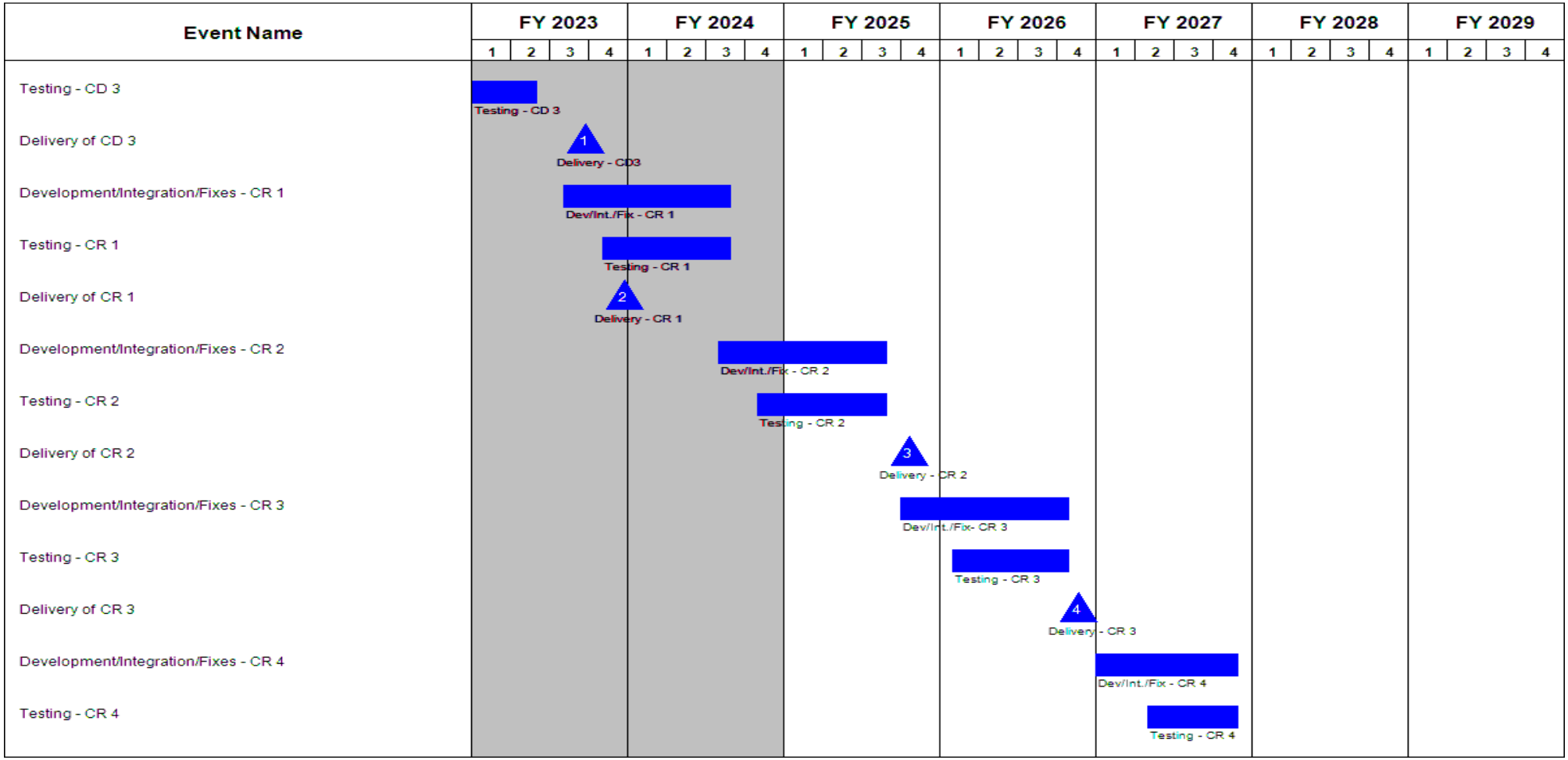


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** XU3 / *Tactical DCO-I*

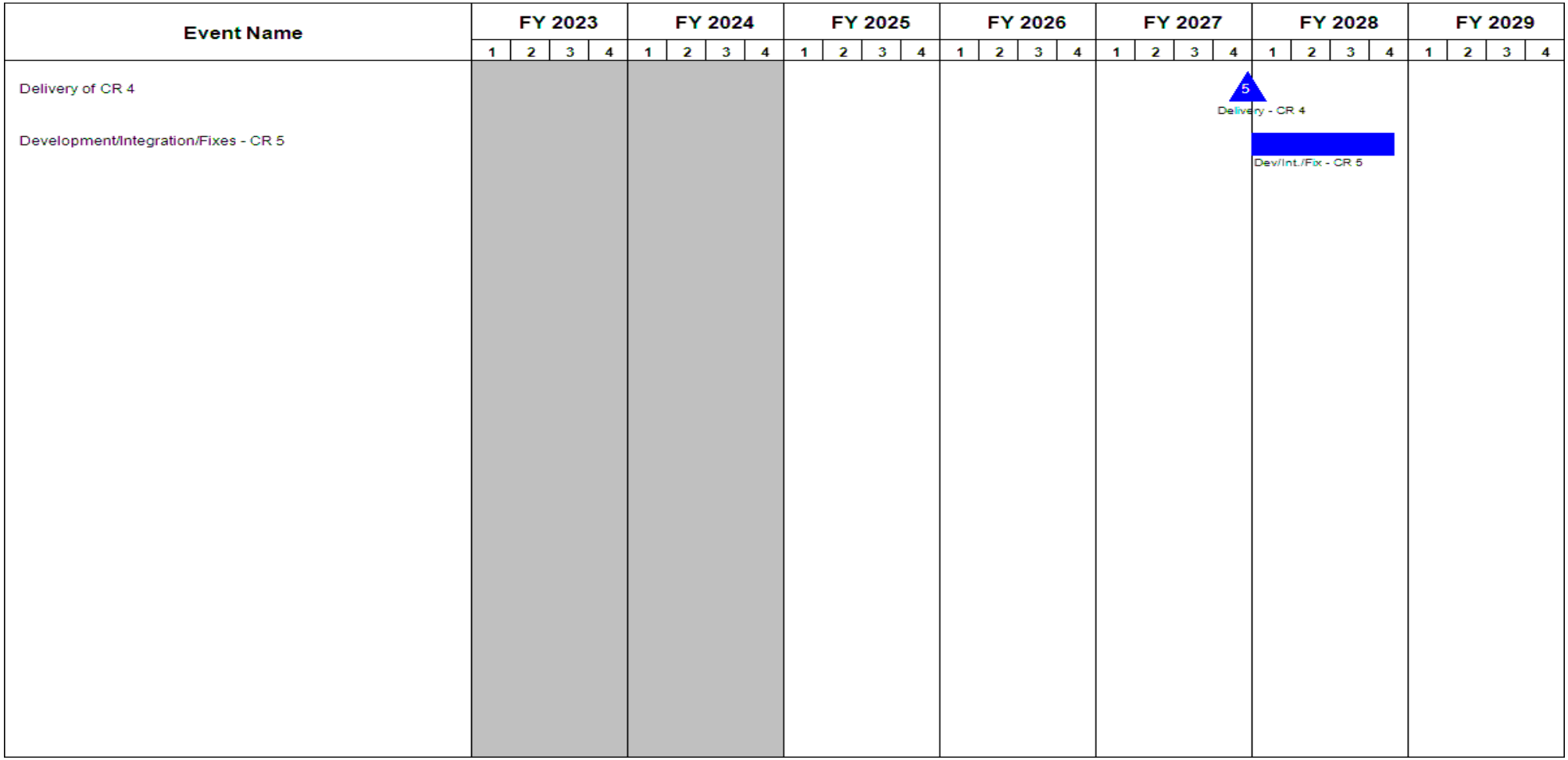


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605041A / *Defensive CYBER Tool Development*	**Project (Number/Name)** XU3 / *Tactical DCO-I*

Schedule Details

	Start		End	
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	2023	4	2023
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

TDI is hosted on the Tactical Server Infrastructure (TSI) and 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 Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605042A *I Tactical Network Radio Systems (Low-Tier)*

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	4.265	4.318	4.288	-	4.288	3.399	3.499	3.538	3.625	0.000	26.932
FA1: *Manpack Radio*	-	2.913	2.858	2.846	-	2.846	1.923	1.908	1.929	1.999	0.000	16.376
FA2: *Rifleman Radio (RR)*	-	1.352	1.460	1.442	-	1.442	1.476	1.591	1.609	1.626	0.000	10.556

A. Mission Description and Budget Item Justification

This effort is part of the Army's modernization plans for the Army of 2030.

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.

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. FY2025 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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605042A *I Tactical Network Radio Systems (Low-Tier)*

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	4.426	4.318	4.405	-	4.405
Current President's Budget	4.265	4.318	4.288	-	4.288
Total Adjustments	-0.161	0.000	-0.117	-	-0.117
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.001	-			
• SBIR/STTR Transfer	-0.162	-			
• Adjustments to Budget Years	-	-	-0.117	-	-0.117

Change Summary Explanation

The FY25 funding change from the previous PB to the current PB reflects an Army approved minor reduction.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	Project (Number/Name) FA1 / *Manpack Radio*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FA1: *Manpack Radio*	-	2.913	2.858	2.846	-	2.846	1.923	1.908	1.929	1.999	0.000	16.376
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This effort is part of the Army's modernization plans for the Army of 2030.

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.

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. 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.

FY2025 funds in the amount of $2.846M 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.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Program Management	0.118	0.110	0.110
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 2024 Plans: FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.			
FY 2025 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	**Project (Number/Name)** FA1 / *Manpack Radio*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.			
Title: HMS Engineering/Technical Support ***Description:*** Overall technical analysis support to HMS Manpack products. ***FY 2024 Plans:*** FY 2024 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. ***FY 2025 Plans:*** FY 2025 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. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding change is consistent with the planned lifecycle of this effort.	1.628	1.648	1.654
Title: Test and Evaluation ***Description:*** Manpack's Test and Evaluation focuses on the key technical and operational characteristics of the system: Radio Frequency performance, security, Reliability, Availability & Maintainability, suitability and survivability requirements, in addition to operational environmental performance requirements as per the Capability Production Document. Results from OT facilitated future procurement for Full Rate Production and informed required delta testing. HMS funding supports delta testing, Performance Verification Tests (PVTs), and Operational User Assessments (OUAs). ***FY 2024 Plans:*** FY 2024 Research Development Test & Evaluation (RDT&E) funding supports HMS 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. ***FY 2025 Plans:*** FY 2025 Research Development Test & Evaluation (RDT&E) funding supports HMS 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. ***FY 2024 to FY 2025 Increase/Decrease Statement:***	1.167	1.100	1.082

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	**Project (Number/Name)** FA1 / *Manpack Radio*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY2025 funding decreased from FY2024 resulting in decrease to the test and evaluation requirement.			
Accomplishments/Planned Programs Subtotals	2.913	2.858	2.846

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• FA2: *Rifleman Radio (RR)*	1.352	1.460	1.442	-	1.442	1.476	1.591	1.609	1.626	0.000	10.556
• B95004: *Handheld Manpack Small Form Fit (HMS)*	660.270	765.109	704.118	-	704.118	723.402	738.324	747.604	755.067	Continuing	Continuing

Remarks

D. Acquisition Strategy

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 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.

In 2023, HMS began 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 Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	Project (Number/Name) FA1 / *Manpack Radio*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management Office Support	Various	PEO C3T & CECOM : Various; APG, MD	5.026	0.110	Apr 2023	0.110		0.110		-		0.110	0.000	5.356	-
		Subtotal	5.026	0.110		0.110		0.110		-		0.110	0.000	5.356	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering/Technical Support	Various	PEO C3T, ARL, C5ISR, & ATC : Various	23.721	1.636	Apr 2023	1.648		1.654		-		1.654	0.000	28.659	-
		Subtotal	23.721	1.636		1.648		1.654		-		1.654	0.000	28.659	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Follow on Delta Development & Testing	Various	EPG : Ft. Huachuca	5.654	1.167	Apr 2023	1.100		1.082		-		1.082	0.000	9.003	-
		Subtotal	5.654	1.167		1.100		1.082		-		1.082	0.000	9.003	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	34.401	2.913		2.858		2.846		-		2.846	0.000	43.018	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	**Project (Number/Name)** FA1 / *Manpack Radio*

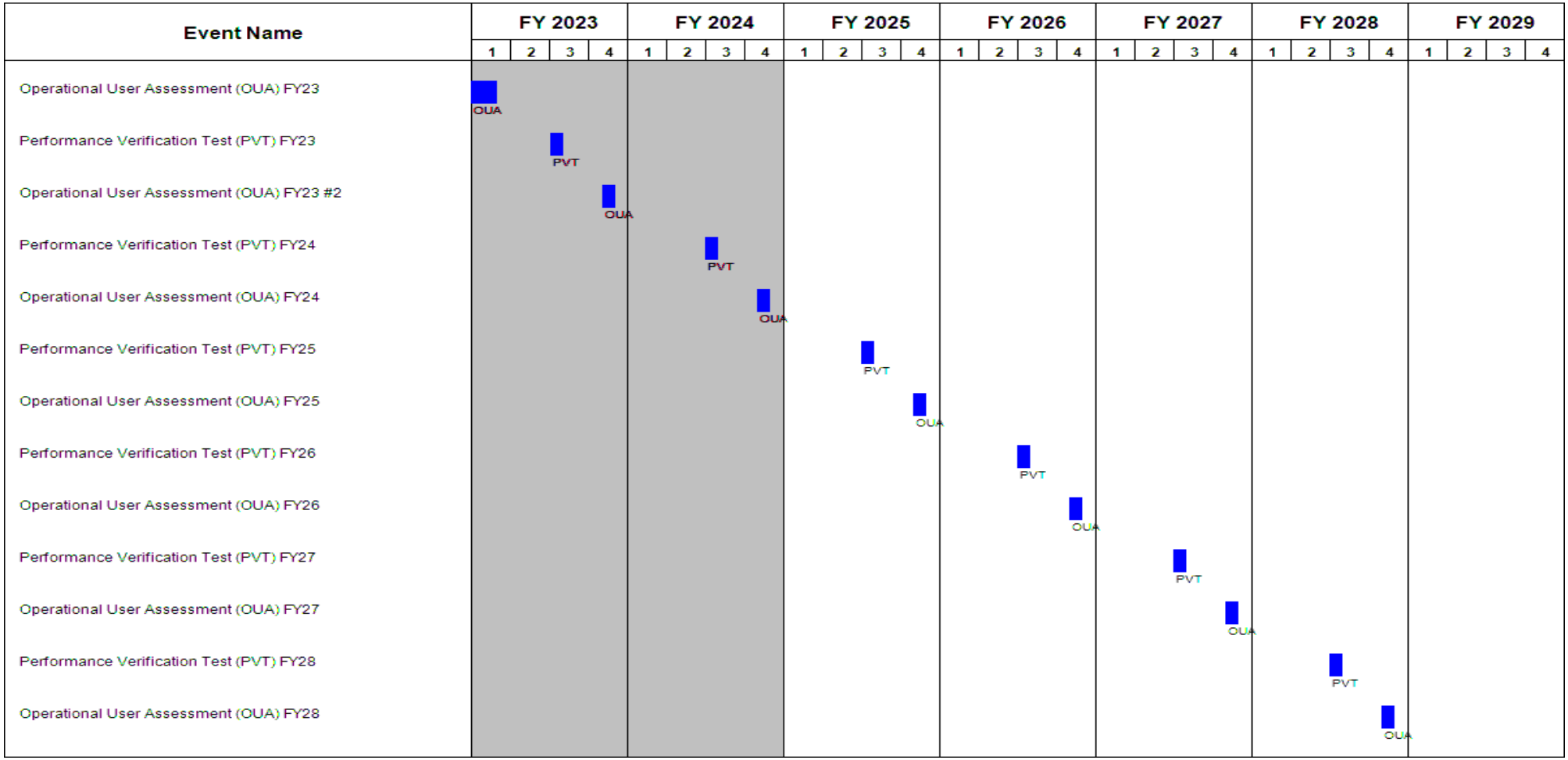


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	**Project (Number/Name)** FA1 / *Manpack Radio*

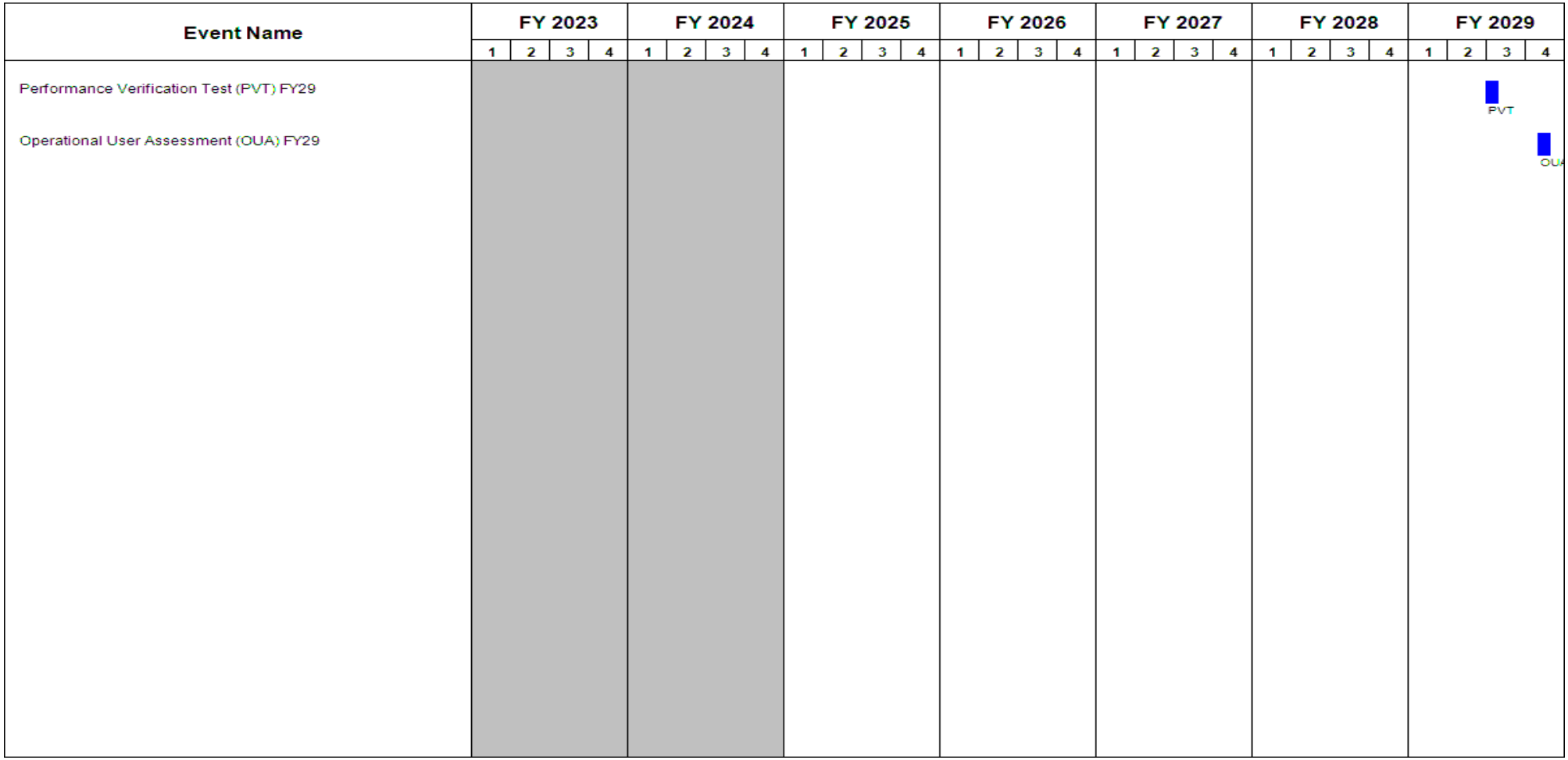


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	**Project (Number/Name)** FA1 / *Manpack Radio*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
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
Performance Verification Test (PVT) FY29	3	2029	3	2029
Operational User Assessment (OUA) FY29	4	2029	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	Project (Number/Name) FA2 / *Rifleman Radio (RR)*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FA2: *Rifleman Radio (RR)*	-	1.352	1.460	1.442	-	1.442	1.476	1.591	1.609	1.626	0.000	10.556
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This effort is part of the Army's modernization plans for the Army of 2030.

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.

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. 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.

FY2025 funds in the amount of $1.442M 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.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Program Management	0.058	0.058	0.058
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 2024 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	**Project (Number/Name)** FA2 / *Rifleman Radio (RR)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support. ***FY 2025 Plans:*** FY 2025 funds will provide overall management and oversight to implement HMS acquisition strategy - to include Matrix and Contractor support.			
Title: HMS Engineering/Technical Support ***Description:*** Overall technical analysis support to HMS Handheld products. ***FY 2024 Plans:*** FY 2024 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. ***FY 2025 Plans:*** FY 2025 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. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** HMS Engineering/Technical Support increased only $3K.	0.920	1.019	1.022
Title: Test and Evaluation ***Description:*** Handheld's Test and Evaluation focuses on the evaluation of key technical and operational characteristics of the system: Radio Frequency performance, security, Reliability, Availability & Maintainability, and survivability requirements, in addition to operational environmental performance requirements as per the Capability Production Document. All previous testing on the Leader Radio, served as risk reduction and Operational Test (OT) preparations in support of FRP. Results from the OT facilitated future procurement for Full Rate Production and informed required delta testing. HMS funding supports delta testing, Performance Verification Tests (PVTs), and Operational User Assessments (OUAs). ***FY 2024 Plans:*** FY 2024 Research Development Test & Evaluation (RDT&E) funding supports HMS 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. ***FY 2025 Plans:***	0.374	0.383	0.362

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	**Project (Number/Name)** FA2 / *Rifleman Radio (RR)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 Research Development Test & Evaluation (RDT&E) funding supports HMS 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. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 funding decreased from FY24 resulting in a decrease to Test and Evaluation requirement.			
Accomplishments/Planned Programs Subtotals	1.352	1.460	1.442

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• FA1: *Manpack Radio*	2.913	2.858	2.846	-	2.846	1.923	1.908	1.929	1.999	0.000	16.376
• B95004: *Handheld Manpack Small Form Fit (HMS)*	660.270	765.109	704.118	-	704.118	723.402	738.324	747.604	755.067	Continuing	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 FY2025 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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	Project (Number/Name) FA2 / *Rifleman Radio (RR)*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management Office Support	Various	PEO C3T & CECOM : Various; APG, MD	4.299	0.058	Apr 2023	0.058		0.058		-		0.058	0.000	4.473	Continuing
		Subtotal	4.299	0.058		0.058		0.058		-		0.058	0.000	4.473	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
HMS Engineering/ Technical Support	Various	PEO C3T, ARL, C5ISR, & ATC : Various	9.292	0.920	Apr 2023	1.019		1.022		-		1.022	0.000	12.253	-
		Subtotal	9.292	0.920		1.019		1.022		-		1.022	0.000	12.253	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Follow on Delta Development & Testing	Various	EPG : Fort Huachuca	6.802	0.374	Apr 2023	0.383		0.362		-		0.362	0.000	7.921	-
		Subtotal	6.802	0.374		0.383		0.362		-		0.362	0.000	7.921	N/A

	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	20.393	1.352		1.460		1.442		-		1.442	0.000	24.647	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	**Project (Number/Name)** FA2 / *Rifleman Radio (RR)*

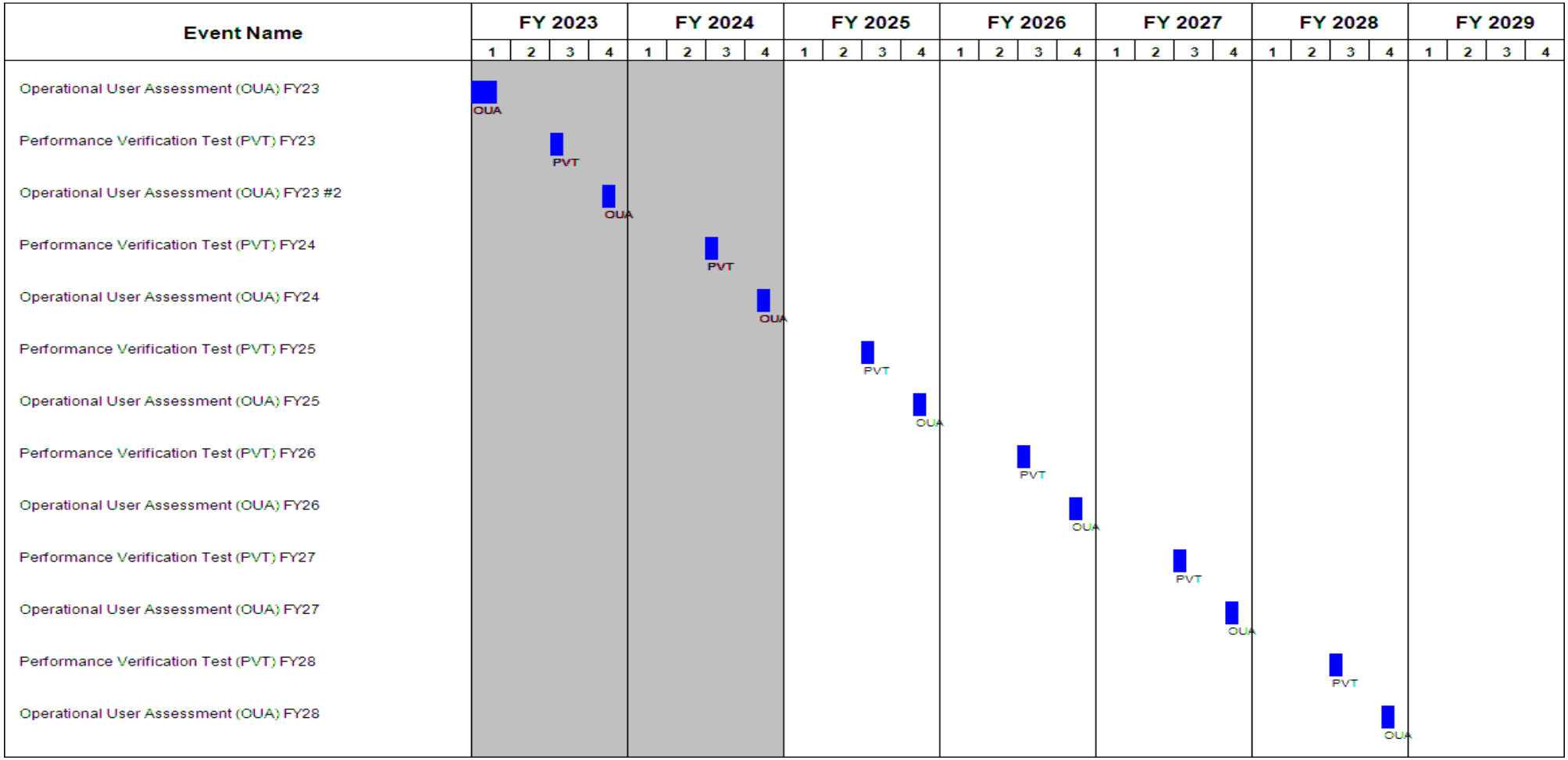


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	**Project (Number/Name)** FA2 / *Rifleman Radio (RR)*

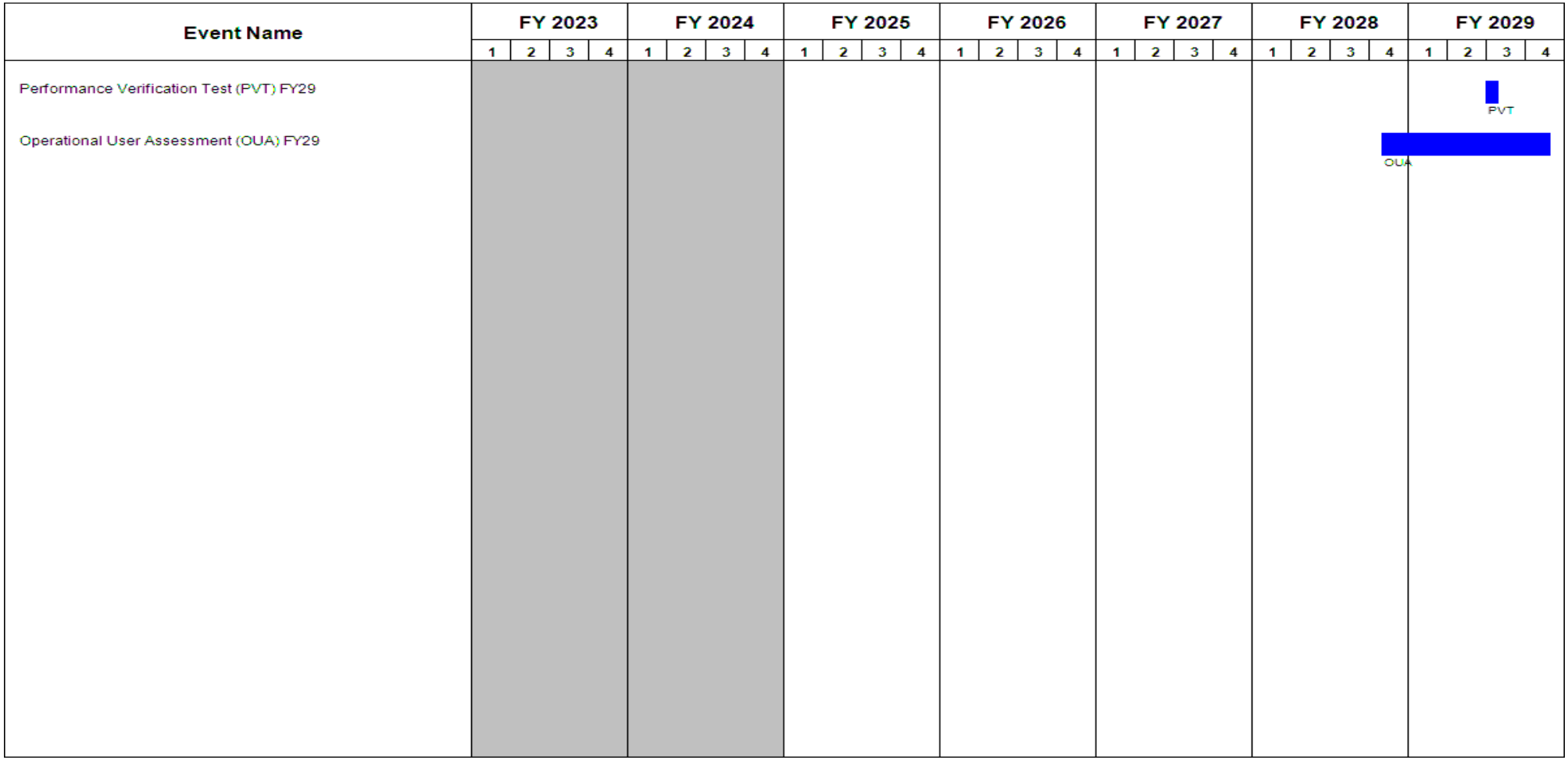


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605042A / *Tactical Network Radio Systems (Low-Tier)*	**Project (Number/Name)** FA2 / *Rifleman Radio (RR)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
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
Performance Verification Test (PVT) FY29	3	2029	3	2029
Operational User Assessment (OUA) FY29	4	2028	4	2029

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605047A *I Contract Writing System*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	13.220	16.355	9.276	-	9.276	-	0.253	-	-	Continuing	Continuing
FA7: *Contract Writing System*	-	13.220	16.355	9.276	-	9.276	-	0.253	-	-	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.

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 United States Department of Agriculture's (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 development effort. To meet requirements, ACWS leverages functionality from Air Force's Contracting Information Technology (CON-IT), Army's Virtual Contracting Enterprise (VCE), DoD's Procurement Integrated Enterprise Environment (PIEE), GSA's System for Award Management (SAM), and other existing Robotic Process Automation (RPA) programs for an integrated Army system to enable decommission of Standard Procurement System (SPS) and Procurement Automated Data and Document System (PADDS). This approach enables contracting business intelligence and analysis.

The Army is collaborating with the USDA Enterprise Application Services using IAAs to support development and delivery. The program has transitioned to the Agile development framework and conducted a discovery (risk reduction) effort in 2022, which informed development and resource requirements. The pivot implements Continuous Integration Continuous Delivery (CI/CD) to support iterative development, testing and deployment to provide a flexible system responsive to warfighter needs.

FY 2025 Base funding in the amount of $9.276 million supports development of required functionality for source selection, vendor portal, Foreign Military Sales, Workload assignment & Strategic sourcing, and additional functionality for pre and post award management. This functionality is required to complete functional stakeholder requirements for full deployment, expand system use to remaining National Guard Users and Joint Base Activities, Corps of Engineers, Army Contracting Centers, as well as Depot users in FY 2025, and to sunset the legacy SPS and PADDS.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army					Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*			R-1 Program Element (Number/Name) PE 0605047A / *Contract Writing System*		
B. Program Change Summary ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Previous President's Budget	13.742	16.355	0.000	-	0.000
Current President's Budget	13.220	16.355	9.276	-	9.276
Total Adjustments	-0.522	0.000	9.276	-	9.276
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.020	-			
• SBIR/STTR Transfer	-0.502	-			
• Adjustments to Budget Years	-	-	9.276	-	9.276

Change Summary Explanation

Increase in funding supports the Contract Writing System development efforts.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605047A / *Contract Writing System*				Project (Number/Name) FA7 / *Contract Writing System*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
FA7: *Contract Writing System*	-	13.220	16.355	9.276	-	9.276	-	0.253	-	-	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.

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 United States Department of Agriculture's (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 development effort. To meet requirements, ACWS leverages functionality from Air Force's Contracting Information Technology (CON-IT), Army's Virtual Contracting Enterprise (VCE), DoD's Procurement Integrated Enterprise Environment (PIEE), GSA's System for Award Management (SAM), and other existing Robotic Process Automation (RPA) programs for an integrated Army system to enable decommission of Standard Procurement System (SPS) and Procurement Automated Data and Document System (PADDS). This approach enables contracting business intelligence and analysis.

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FY 2025 Base funding in the amount of $9.276 million supports development of required functionality for source selection, vendor portal, Foreign Military Sales, Workload assignment & Strategic sourcing, and additional functionality for pre and post award management. This functionality is required to complete functional stakeholder requirements for full deployment, expand system use to remaining National Guard Users and Joint Base Activities, Corps of Engineers, Army Contracting Centers, as well as Depot users in FY 2025, and to sunset the legacy SPS and PADDS.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Program Office	2.732	2.660	1.636

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605047A / *Contract Writing System*	**Project (Number/Name)** FA7 / *Contract Writing System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: These resources in the ACWS Program Management Office include Government, matrixed, and SETA contractor support for capability development, enterprise architecture, contract management, management analysis, capital/ financial planning, life cycle planning, risk management, and schedule management. ***FY 2024 Plans:*** FY2024 funding for program management support in the ACWS Government Program Management Office includes contractor support, and CECOM for resource planning, capability development, life cycle planning, risk management, schedule management, and facilities. FY2024 will continue to focus on planning and execution of the solution implementation. ***FY 2025 Plans:*** FY 2025 funding for program management support in the ACWS Government Program Management Office includes contractor support, and CECOM for resource planning with multiple delivery teams, agile life cycle planning, agile execution, risk management, schedule management, and facilities. FY 2025 will focus on execution of the solution implementation, deployment, and transition to long term sustainment in conjunction with the CI/CD pipeline. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decreases by $1.024 million to align management activities with the current planned system development effort.			
Title: Product Development ***Description:*** Product development is responsible for design and development of the solution for Army contract writing using Agile development methodologies. This cross-functional team of Government and contractor staff analyzes and designs the requirements to efficiently ensure completeness in satisfying system requirements and in accordance with Army standards. Efforts required by system interface partners, hosting infrastructure and managed services are also included as a requirement of the solution for Army contract writing. ***FY 2024 Plans:*** FY2024 RDTE funding builds required functionality leveraging the IAA with USDA, including grants and agreements capabilities, continues on-board of USDA resources, furthers construction contracting, financial system integration and standards, 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 area also includes functional support for business process re-engineering and resources to support agile software development. ***FY 2025 Plans:*** FY 2025 RDTE funding builds required functionality using Agile development practices and leveraging the IAA with USDA, including source selection, vendor portal, Foreign Military Sales, Workload assignment & Strategic sourcing, and additional	8.527	11.937	7.148

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605047A / *Contract Writing System*	**Project (Number/Name)** FA7 / *Contract Writing System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
functionality for pre and post award management. This area also includes functional support for business process re-engineering and resources to support agile software development. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 funding decreases $4.789 million due to completion of functional requirements in prior years and aligns the current planned system development effort.			
Title: Security ***Description:*** Security related costs include Information Assurance (IA)/ Risk Management Framework (RMF) activities, Accreditation & Inspection (A&I), and cyber security support for the Cloud Solution Provider's government approved hosting environment complementing the Interim Authorization to Test (IATT) and Authority to Operate (ATO) controls. ***FY 2024 Plans:*** FY2024 funding supports the maintenance of the accreditation and compliance with cyber security regulations for the new strategy. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** No funding provided in FY 2025 as program leverages DLA to complete Authority to Operate (ATO) and Assess & Incorporate (A&I). OMA resources will support security sustainment.	0.892	0.264	-
Title: Test & Evaluation ***Description:*** Costs associated with the test and evaluation function to validate and inspect capability requirements ensuring they are satisfactorily addressed through design analysis and development of test scripts. This funding also supports the implementation of a CI/CD pipeline with automated testing capability. ***FY 2024 Plans:*** FY2024 resources supports continuous testing and deployment of the new solution, including facilitating operational assessments in coordination with field users. This funding also supports the implementation of a CI/CD pipeline with automated testing capability. ***FY 2025 Plans:*** FY 2025 resources support continuous testing and deployment of the new solution, including facilitating operational assessments in coordination with field users. This funding also leverages the implementation of a CI/CD pipeline with automated testing capability. ***FY 2024 to FY 2025 Increase/Decrease Statement:***	1.069	1.494	0.492

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605047A / *Contract Writing System*	**Project (Number/Name)** FA7 / *Contract Writing System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 funding decreases $1.002 million due to use of automated testing align with the current planned system development effort.			
Accomplishments/Planned Programs Subtotals	13.220	16.355	9.276

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• B66001: *Contract Writing System*	4.020	6.061	1.667	-	1.667	-	0.183	0.185	-	0.000	12.116
• OMA - 423612000 / 5T0: *ACWS Sustainment OMA*	6.602	11.426	14.217	-	14.217	15.873	16.637	13.458	10.833	0.000	89.046

Remarks

FY 2025 OPA funds support training material development and dedicated training support personnel.

FY 2025 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

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.

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 United States Department of Agriculture's (USDA) to act as the system integrator (SI), leveraging an Interagency Agreement (IAA) and using existing capabilities across DoD in order to minimize the development effort. These capabilities include use of functionality within the Air Force's Contracting- Information Technology (CON-IT), Army's Virtual Contracting Enterprise (VCE), DoD Procurement Integrated Enterprise Environment (PIEE), System for Award Management (SAM), and other existing Robotic Process Automation (RPA) programs for an integrated system to begin decommissioning of SPS and PADDS and enables contracting business intelligence analysis.

The Army is collaborating with the USDA Enterprise Application Services using Interagency Agreements (IAAs) to support development and delivery. The program has transitioned to the Agile development framework and conducted a discovery (risk reduction) effort in 2022, which informed development and resource requirements. The

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605047A / *Contract Writing System*	**Project (Number/Name)** FA7 / *Contract Writing System*

pivot implements Continuous Integration Continuous Delivery (CI/CD) to support iterative development, testing and deployment to provide a flexible system responsive to warfighter needs.

In FY 2022, the program refined its acquisition plan following the risk reduction to include epic development based on existing requirements, program staff training and realignment for agile execution, establishment of a schedule for incremental delivery, training and deployment, user license procurement, and cloud infrastructure selection and stand-up.

In FY 2023, the Army established an IAA with Defense Logistics Agency (DLA) to deliver an Army instance of ACWS software in the PIEE which supported efficiencies for cloud hosting, accreditation, and Identity Credential Access Management (ICAM) requirements. Additionally, the program procured an Appian core contract writing license to support developer and user access. The Army established a separate IAA with USDA to support long term sustainment. The program established an agreement with cARMY for hosting to explore IL6/ Secure contracting requirements. IL6 exceeds the current security level for DLA PIEE.

In FY 2024, the program continues to leverage separate IAAs with USDA and DLA PIEE. USDA provides development and sustainment support. DLA PIEE provides cloud hosting. The program plans to exercise its option to Appian for user license maintenance.

In FY 2025, the program will reach the conclusion of the IAA with USDA. ACWS will evaluate all options for future development and sustainment.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605047A / *Contract Writing System*	Project (Number/Name) FA7 / *Contract Writing System*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Office	Various	PdM ACWS : Arlington, VA	34.667	2.732	Oct 2022	2.660		1.636	Oct 2024	-		1.636	0.000	41.695	-
		Subtotal	34.667	2.732		2.660		1.636		-		1.636	0.000	41.695	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	Various	PdM ACWS : Arlington, VA	88.546	8.527	Nov 2022	11.937		7.148	Mar 2025	-		7.148	0.000	116.158	-
		Subtotal	88.546	8.527		11.937		7.148		-		7.148	0.000	116.158	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Security	Various	PdM ACWS : Arlington, VA	7.416	0.892	May 2023	0.264		-		-		-	0.000	8.572	-
		Subtotal	7.416	0.892		0.264		-		-		-	0.000	8.572	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	Various	ATEC & JTIC & PdM ACWS : Arlington, VA	7.753	1.069	Nov 2022	1.494		0.492	Oct 2024	-		0.492	0.000	10.808	-
		Subtotal	7.753	1.069		1.494		0.492		-		0.492	0.000	10.808	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605047A / *Contract Writing System*	Project (Number/Name) FA7 / *Contract Writing System*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	138.382	13.220		16.355		9.276		-		9.276	0.000	177.233	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605047A / *Contract Writing System*	**Project (Number/Name)** FA7 / *Contract Writing System*

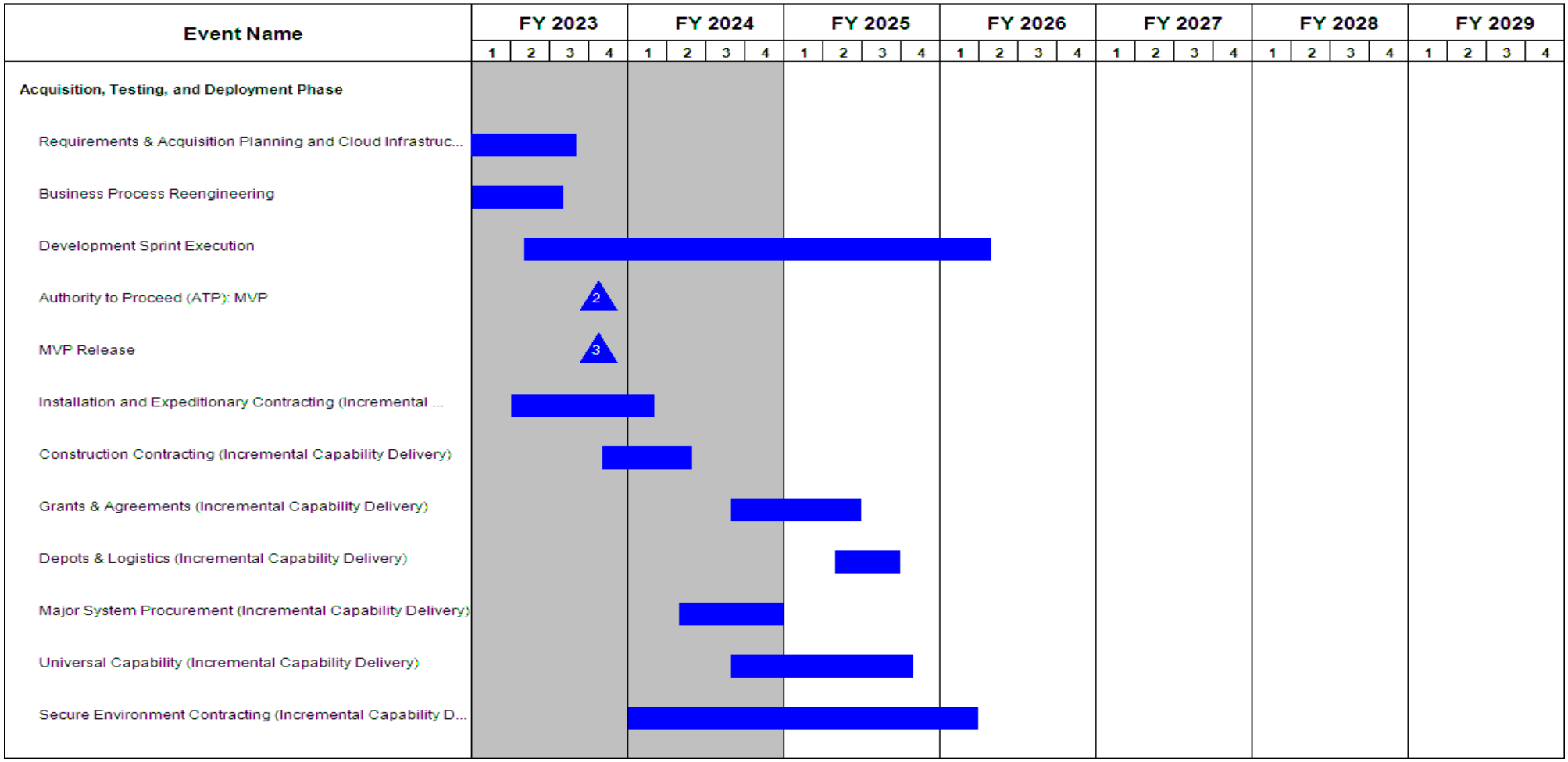

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605047A / *Contract Writing System*	**Project (Number/Name)** FA7 / *Contract Writing System*

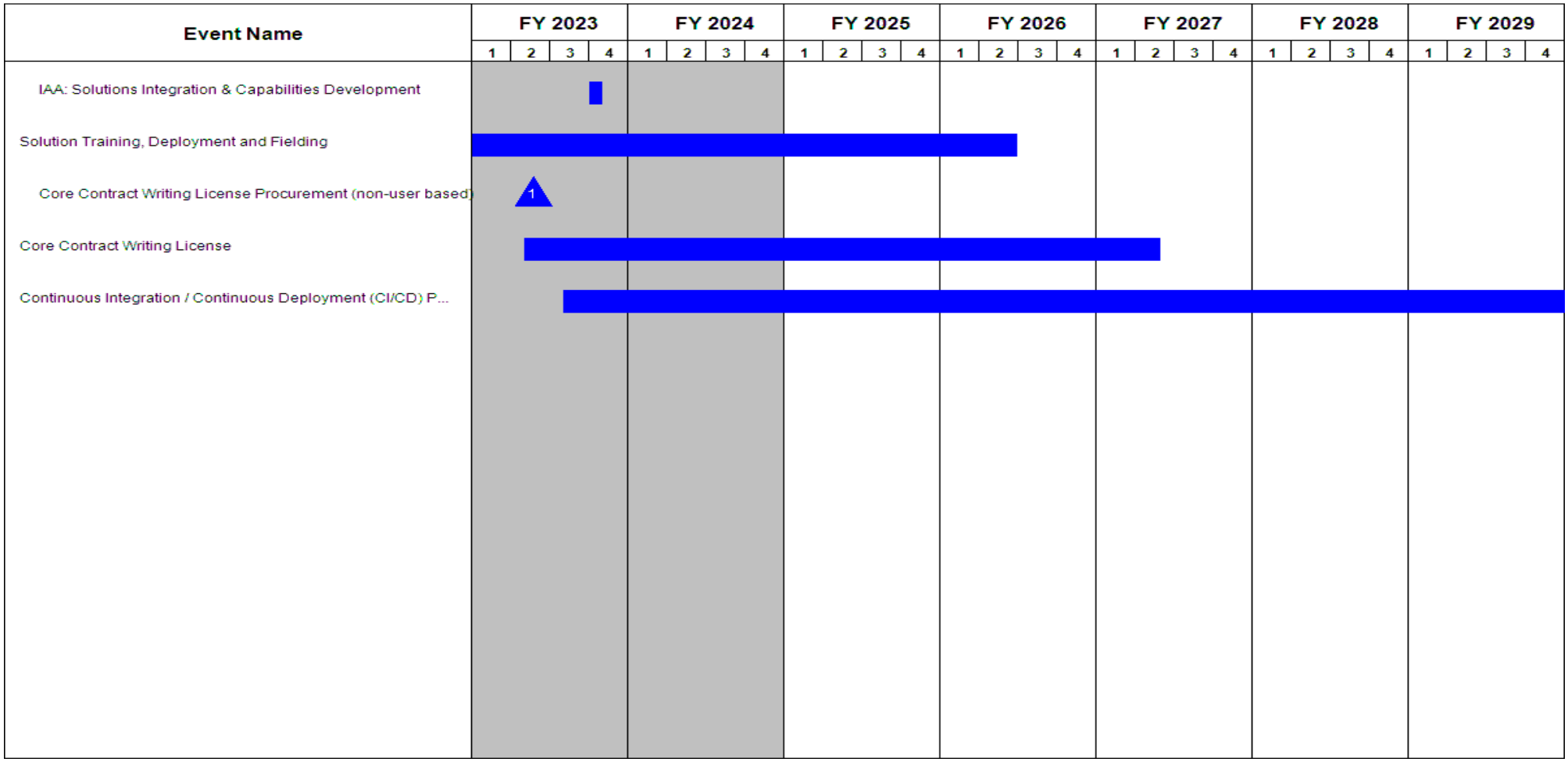

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605047A / *Contract Writing System*	**Project (Number/Name)** FA7 / *Contract Writing System*

Schedule Details

	Start		End	
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 Development	4	2022	3	2023
Business Process Reengineering	1	2023	3	2023
Development Sprint Execution	2	2023	2	2026
Authority to Proceed (ATP): MVP	4	2023	4	2023
MVP Release	4	2023	4	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

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605047A / *Contract Writing System*	**Project (Number/Name)** FA7 / *Contract Writing System*

	Start		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)	1	2024	1	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	3	2023	2	2032

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605049A *I Missile Warning System Modernization (MWSM)*

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	27.571	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	27.571
XT4: *Advanced Threat Detection System (ATDS)*	-	-	27.571	-	-	-	-	-	-	-	0.000	27.571

Note

Funding transitioned from XT4 (PE 0605049A): Advanced Threat Detection System (ATDS) in FY24 to ITD (PE 0605051A): Improved Threat Detection System (ITDS) in FY25.

A. Mission Description and Budget Item Justification

The ITDS (Improved Threat Detection System) 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 platforms. ITDS will use an incremental approach to align with PM ASE's System of Systems approach, including both detect and defeat capabilities, and integrate it onto an open system architecture digital backbone, improving full coverage against evolving threats in hostile environments.

ITDS is an FY2024 (PE 0605049A) new start program applying a Middle Tier of Acquisition (MTA) adaptive acquisition pathway. PM ASE is executing this ITDS MTA Rapid Prototyping effort under an Other Transactional Authority agreement with multiple phases. The result will be a residual operational capability that will 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 munitions, Unmanned Aerial Vehicles (UAV), and Lasers.

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.

FY24 funding was placed on the XT4 (ATDS) funding line because none existed 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 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605049A *I Missile Warning System Modernization (MWSM)*

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	0.000	27.571	0.000	-	0.000
Current President's Budget	0.000	27.571	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605049A / *Missile Warning System Modernization (MWSM)*	Project (Number/Name) XT4 / *Advanced Threat Detection System (ATDS)*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
XT4: *Advanced Threat Detection System (ATDS)*	-	-	27.571	-	-	-	-	-	-	-	0.000	27.571
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

ITD: Improved Threat Detection System (ITDS).
The ITDS (Improved Threat Detection System) 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 platforms. ITDS will use an incremental approach to align with PM ASE's System of Systems approach, including both detect and defeat capabilities, and integrate it onto an open system architecture digital backbone, improving full coverage against evolving threats in hostile environments.

ITDS is an FY2024 (PE 0605049A) new start program applying a Middle Tier of Acquisition (MTA) adaptive acquisition pathway. PM ASE is executing this ITDS MTA Rapid Prototyping effort under an Other Transactional Authority agreement with multiple phases. The result will be a residual operational capability that will 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 munitions, Unmanned Aerial Vehicles (UAV), and Lasers.

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.

FY24 funding was placed on the XT4 (ATDS) funding line because none existed 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 2023	FY 2024	FY 2025
Title: ITDS Product Development and Management Services	-	27.571	-
FY 2024 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605049A / *Missile Warning System Modernization (MWSM)*	**Project (Number/Name)** XT4 / *Advanced Threat Detection System (ATDS)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY2024 BASE RDTE dollars in the amount of $27.571 million will fund program management and technical oversight for an ITDS milestone decision and execution of contract/s to initiate Product Development. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding transitioned from XT4 (PE 0605049A): Advanced Threat Detection System (ATDS) in FY24 to ITD (PE 0605051A): Improved Threat Detection System (ITDS) in FY25.			
Accomplishments/Planned Programs Subtotals	-	27.571	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

ATDS previously as FY2024 (PE 0605049A) new start program applying a Middle Tier of Acquisition (MTA) adaptive acquisition pathway moved to ITDS in FY2025 (PE 0605051A). PM ASE is executing this ITDS MTA Rapid Prototyping effort under an Other Transactional Authority agreement with multiple phases. The result will be a residual operational capability that will 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 munitions, Unmanned Aerial Vehicles (UAV), and Lasers.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605049A / *Missile Warning System Modernization (MWSM)*	Project (Number/Name) XT4 / *Advanced Threat Detection System (ATDS)*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ITDS SEPM	TBD	Various : Various	-	-		14.647		-		-		-	0.000	14.647	Continuing
		Subtotal	-	-		14.647		-		-		-	0.000	14.647	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ITDS Development Engineering	TBD	PM ASE : HSV, AL	-	-		12.924		-		-		-	0.000	12.924	Continuing
		Subtotal	-	-		12.924		-		-		-	0.000	12.924	N/A

	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		27.571		-		-		-	0.000	27.571	N/A

Remarks

The breakdown for the FY24 PB was tentative based on the outcome of the Acquisition Shaping Panels and now, with the direction to pursue the MTA RP pathway, approximately 9% of the funding is allocated to SEPM, and the remaining funding is broken out between the vendors and testing. However, FY24 is locked and cannot be updated.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605049A / *Missile Warning System Modernization (MWSM)*	**Project (Number/Name)** XT4 / *Advanced Threat Detection System (ATDS)*

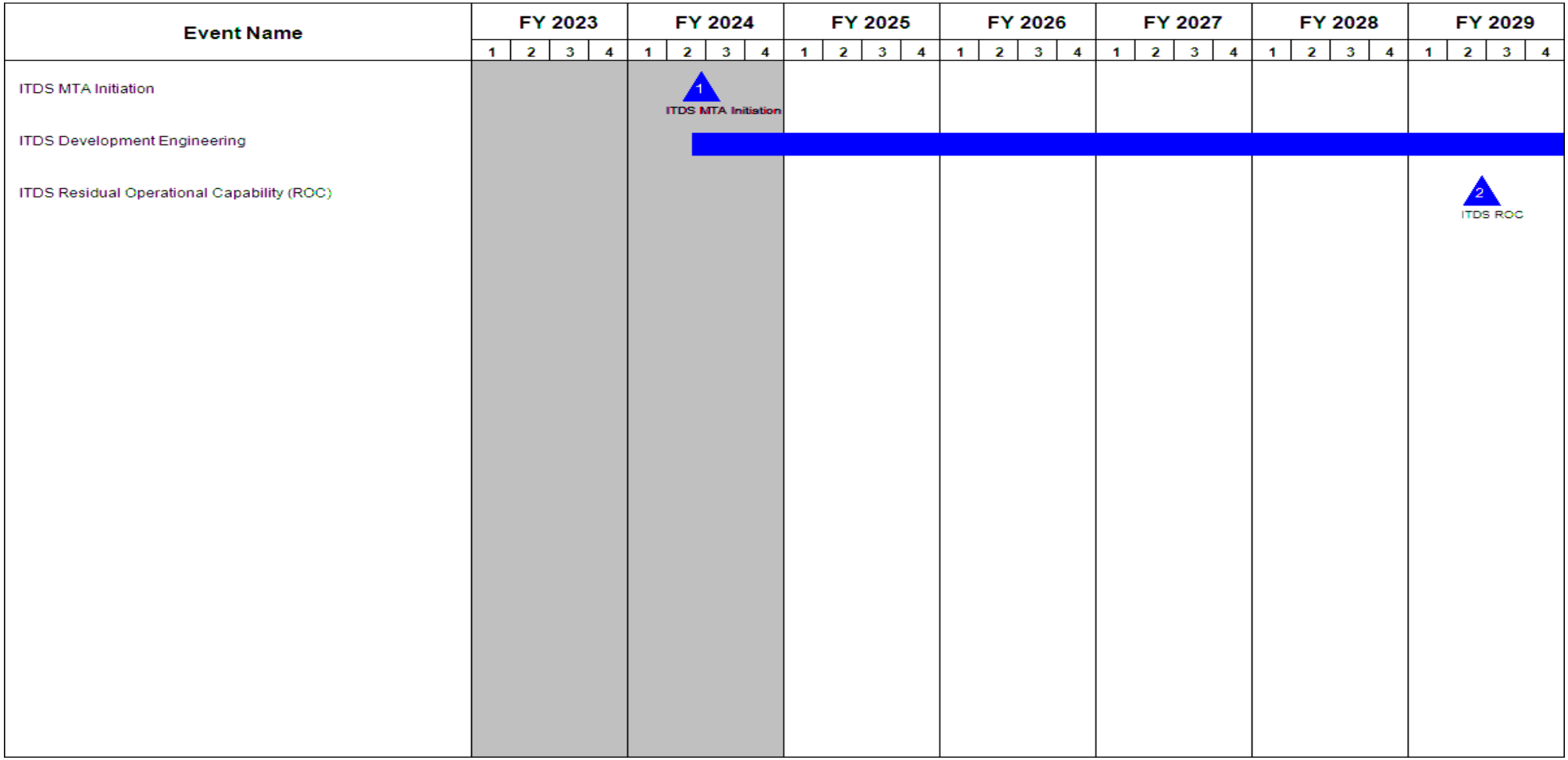

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605049A / *Missile Warning System Modernization (MWSM)*	**Project (Number/Name)** XT4 / *Advanced Threat Detection System (ATDS)*

Schedule Details

	Start		End	
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 MTA Initiation	2	2024	2	2024
ITDS Development Engineering	2	2024	4	2029
ITDS Residual Operational Capability (ROC)	2	2029	2	2029

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605051A / *Aircraft Survivability Development*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	18.425	24.900	38.225	-	38.225	14.242	15.099	16.299	16.462	0.000	143.652
ER7: *Aircraft Survivability Equipment Development*	-	11.642	15.177	4.703	-	4.703	9.528	10.335	11.481	11.596	0.000	74.462
ER8: *Common Missile Warning System (CMWS)*	-	6.783	9.723	5.097	-	5.097	4.714	4.764	4.818	4.866	0.000	40.765
ITD: *Improved Threat Detection System (ITDS)*	-	-	-	28.425	-	28.425	-	-	-	-	0.000	28.425

Note

Funding transitioned from XT4 (PE 0605049A): Advanced Threat Detection System (ATDS) in FY24 to ITD (PE 0605051A): Improved Threat Detection System (ITDS) in FY25. PE 06050551A / Improved Threat Detection System (ITDS) is a New Start.

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) as well as the Future Vertical Lift (FVL) platforms. The Aircraft Survivability Development program includes Projects titled Aircraft Survivability Equipment Development (ER7) and Common Missile Warning System (CMWS) (ER8). This program previously included funding for Joint Urgent Operational Needs Statement (JUONS) SO-0010 Phase 2a, Headquarters Department of the Army (HQDA) Directed Requirement for Advanced Threat Warner (ATW) portion of Phase 3 ATW/Common Infrared Countermeasures Quick Reaction Capability (ATW/CIRCM QRC), and Limited Interim Missile Warning System Quick Reaction Capability (LIMWS QRC). As of FY2025, the ATW and JUONS RDT&E efforts have been completed, and aircraft deployed with JUONS have been de-modified.

ER7: Aircraft Survivability Development.
The objective of the ASE Development project is to improve Radio Frequency (RF) ASE for Army Aviation. APR-39 Radar Warning Receiver (RWR) detects, categorizes, and prioritizes RF emitters and provides a visual / aural alert to aircrew members warning them of targeting by RF-guided weapons. The Milestone Decision Authority (MDA) approved Phases 1 and 2 of a 3-phased path forward.

Phase 1, APR-39C(V)1/4, serves as an obsolescence / sustainment upgrade to the Processor Line Replaceable Unit (LRU) for AN/APR-39A(V) RWR implemented to ensure that the currently fielded system remains viable until affordable improved RF ASE capability can be pursued in Phases 2 and 3.

Phase 2A is RWR Modernization begins by adopting the United States Navy APR-39D(V)2 system. APR-39D(V)2 will significantly improve the RF threat coverage, automatic detection and identification of threat types, bearing, and lethality. Phase 2B, the APR-39E(V)2, Modernized Radar Warning Receiver (MRWR), is an Army Engineering Change Proposal (ECP) to APR-39D(V)2, approved in the Acquisition Decision Memorandum (ADM) signed June 24, 2019. This ECP will implement

enhanced hardware and software upgrades to keep APR-39 technically relevant against new and emerging agile threats. APR-39E(V)2 is part of the suite of ASE mission equipment for the FVL platforms.

Phase 3 adds active Radio Frequency Electronic Countermeasures (RF-ECM) capability for selected aircraft with Material Development Decision (MDD) planned in the future.

Justification: FY 2025 Base RDT&E funding of $4.703 million supports APR-39E(V)2 Hardware and Software System Development, and Systems Engineering and Program Management (SEPM).

ER8: Common Missile Warning System (CMWS).
The CMWS program is a missile warning system that cues both flare and laser-based countermeasures to defeat incoming Infrared (IR)-seeking missiles and will alert aircrews to the presence of certain incoming munitions. The B-Kit consists of the components which perform the missile detection and aircrew notification, munitions detection and aircrew notification, false alarm rejection, and countermeasure employment/cueing functions of the system. The CMWS Electronic Control Unit (ECU) receives ultraviolet (UV) missile detection data from Electro-Optic Missile Sensors (EOMS), which detect UV signals, and sends a missile alert signal to warn aircrews via on-board avionics. Tier 1 threat missiles detected and tracked by CMWS are subsequently defeated by a combination of missile seeker countermeasures, including decoy flares and IR Laser Jamming (currently Common Infrared Countermeasures (CIRCM) -multiple platforms and Advanced Threat Infrared Countermeasures (ATIRCM)-equipped CH-47 platform only). In addition CMWS ECU receives from the EOMS munitions detection data which it also passes to the aircrew through aural and visual alerts. The aircrew then applies the appropriate Tactics, Techniques and Procedures (TTPs) to break contact or engage the enemy with own-ship ordnance. CMWS Generation 3 (Gen 3) ECU in conjunction with ongoing software development efforts will address outstanding materiel release conditions and ensure protection against emerging IR-guided missile threats. Due to evolving threats, CMWS will remain in the Army inventory beyond 2040 and must remain relevant against emerging threats.

The A-Kit for CMWS includes mounting hardware, wiring harnesses, cables, 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.

As a part of Phase 2a of the Joint Urgent Operational Needs Statement (JUONS) (SO-0010) program, the Army integrated the DoN LAIRCM system onto the Army and Special Operations Aircraft Platforms. Due to a number of challenges, circumstances, and variables, the Army updated the Advanced Threat Warning/CIRCM QRC and LIMWS Directed Requirements (dated November 16, 2018). The updated requirements extended the utilization of ATW DoN LAIRCM on conventional Army aircraft and canceled the need for the ATW/CIRCM QRC system for the conventional Army. (It should be noted that the updated requirement maintained the need for ATW/ CIRCM on the Special Operations Aircraft. Sustainment of ATW on Special Operations Aircraft were transferred 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. As of FY 2025, the ATW and JUONS RDT&E efforts have been completed, and aircraft deployed with JUONS have been de-modified.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605051A *I Aircraft Survivability Development*

LIMWS QRC addresses the HQDA Directed Requirement to provide a greater capability than CMWS, the current Program of Record (POR), to bridge the gap between CMWS and the future threat detection system, the Improved Threat Detection System (ITDS). LIMWS is required to provide increased detection range, improved detection in clutter, more agile algorithms to rapidly respond to emerging threats, and eliminates the need for sensor alignments.

Justification:
CMWS: FY 2025 Base RDTE dollars in the amount of $5.097 million will fund Future Sensor and Algorithm Analysis, Threat and Vulnerability Analysis, and Systems Engineering and Program Management (SEPM).

LIMWS: LIMWS does not have funding in FY25.

ITD: Improved Threat Detection System (ITDS).
The ITDS (Improved Threat Detection System) 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 platforms. ITDS will use an incremental approach to align with PM ASE's System of Systems approach, including both detect and defeat capabilities, and integrate to an open system architecture digital backbone, improving full coverage against evolving threats in hostile environments.

ITDS is an FY2024 (PE 0605049A) new start program applying a Middle Tier of Acquisition (MTA) adaptive acquisition pathway. PM ASE is executing this ITDS MTA Rapid Prototyping effort under an Other Transactional Authority agreement with multiple phases. The result will be a residual operational capability that will 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 munitions, Unmanned Aerial Vehicles (UAV), and Lasers.

Justification:
ITDS: FY2025 Base RDTE dollars in the amount of $28.425 million will fund continuation of development efforts including prototype demonstration and test, execution of contract(s) to initiate Product Development, and program management/ technical oversight for ITDS.

References:
- Joint Staff, J-8 Deputy Director for Requirements (DOR) memorandum, April 24, 2015
- Phase 2a SOCOM JUONs SO-0010, Joint Rapid Acquisition Cell (JRAC) memorandum, May 29, 2015
- Directed Requirement for the Phase 3 Advanced Threat Warner and Common Infrared Countermeasure Quick Reaction Capability (ATW/CIRCM QRC) to Support Joint Urgent Operational Need (JUON) SO-0010, CIRCM Critical Intelligence Parameters Breach, December 18, 2015
- Directed Requirement for Limited Interim Missile Warning System to Detect Enemy Man Portable Air Defense Systems, March 26, 2017
- Update to the Directed Requirement for the United States Special Operations Command Joint Urgent Operational Needs SO-0010 Threat Detection and Countermeasures to Enemy Man Portable Air Defense System Capability, November 16, 2018
- Directed Requirement for Limited Interim Missile Warning System to Detect Enemy Man Portable Air Defense Systems, November 16, 2018

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605051A *I Aircraft Survivability Development*

- Aircraft Survivability Equipment (ASE) Modernization Fielding Guidance, Change 1, November 19, 2018
- Acquisition Decision Memorandum (ADM) for Radio Frequency (RF) Project Manager Aircraft Survivability Equipment (PM ASE) Engineering Change Proposal (ECP) for Radar Warning Receiver AN/APR39-D(V)2 to AN/APR39-E(V)2, June 24, 2019 by PEO IEW&S.
- 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. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	19.123	24.900	13.107	-	13.107
Current President's Budget	18.425	24.900	38.225	-	38.225
Total Adjustments	-0.698	0.000	25.118	-	25.118
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.698	-			
• Adjustments to Budget Years	-	-	25.118	-	25.118

Change Summary Explanation

Funding realigned from XT4 (PE 0605049A): Advanced Threat Detection System (ATDS) in FY24 to ITD (PE 0605051A): Improved Threat Detection System (ITDS) in FY25.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605051A / *Aircraft Survivability Development*	Project (Number/Name) ER7 / *Aircraft Survivability Equipment Development*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
ER7: *Aircraft Survivability Equipment Development*	-	11.642	15.177	4.703	-	4.703	9.528	10.335	11.481	11.596	0.000	74.462
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) platforms.

The objective of the ASE Development project is to improve RF ASE for Army aviation. APR-39 RWR detects, categorizes, and prioritizes RF emitters and provides a visual / aural alert to aircrew members warning them of targeting by RF-guided weapons. The MDA approved Phases 1 and 2 of a 3-phased path forward.

Phase 1, APR-39C(V)1/4, serves as an obsolescence / sustainment upgrade to the Processor LRU of APR-39A(V) RWR implemented to ensure that the currently fielded system remains viable until affordable improved RF ASE capability can be pursued in Phases 2 and 3.

Phase 2A is RWR Modernization begins by adopting the United States Navy APR-39D(V)2 system. APR-39D(V)2 will significantly improve the RF threat coverage, automatic detection and identification of threat types, bearing, and lethality. Phase 2B, the APR-39E(V)2, MRWR, is an Army ECP to APR-39D(V)2, approved in the ADM signed June 24, 2019. This ECP will implement enhanced hardware and software upgrades to keep APR-39 technically relevant against new and emerging agile threats. APR-39E(V)2 is part of the suite of ASE mission equipment for the FVL platforms.

Phase 3 adds active RF-ECM capability for selected aircraft with MDD planned in the future.

Justification: FY 2025 Base RDT&E funding of $4.703 million supports APR-39E(V)2 Hardware and Software System Development, and Systems Engineering and Program Management.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Phase 2 Radio Frequency Countermeasure (CM)	11.642	15.177	4.703
Description: Phase 2A is RWR Modernization begins by adopting the United States Navy APR-39D(V)2 system. APR-39D(V)2 will significantly improve the RF threat coverage, automatic detection and identification of threat types, bearing, and lethality. Phase 2B, the APR-39E(V)2, MRWR, is an Army ECP to APR-39D(V)2, approved in the ADM signed June 24, 2019. This ECP will implement enhanced hardware and software upgrades to keep APR-39 technically relevant against new and emerging agile threats. APR-39E(V)2 is part of the suite of ASE mission equipment for the FVL platforms.			
FY 2024 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ER7 / *Aircraft Survivability Equipment Development*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Will fund APR-39E(V)2 Hardware and Software System Development, Systems Engineering and Program Management (SEPM), Limit User Testing (LUT), Government Environmental and EMI Qualification Testing. ***FY 2025 Plans:*** Will fund APR-39E(V)2 Hardware and Software System Development, and Systems Engineering and Program Management (SEPM). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decreased due to completing AH-64 platform integration efforts.			
Accomplishments/Planned Programs Subtotals	11.642	15.177	4.703

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• AZ3511: *Radio Frequency CM*	158.883	146.016	117.932	-	117.932	111.894	117.840	100.267	101.272	3,257.349	4,111.453

Remarks

D. Acquisition Strategy

Army RF ASE is managed by Project Manager (PM) ASE for development, testing, procurement, integration and installation on Army rotary wing and fixed wing Special Electronic Mission Aircraft (SEMA) aviation platforms. PM ASE proposed a three-phased path forward commensurate with user priorities and affordability considerations. The MDA approved Phases 1 and 2 of a 3-phased path forward.

Phase 1, APR-39C(V)1/4, serves as an obsolescence / sustainment upgrade to the Processor LRU of APR-39A(V) RWR implemented to ensure that the currently fielded system remains viable until affordable improved RF ASE capability can be pursued in Phases 2 and 3.

Phase 2A is RWR Modernization begins by adopting the United States Navy APR-39D(V)2 system. APR-39D(V)2 will significantly improve the RF threat coverage, automatic detection and identification of threat types, bearing, and lethality. Phase 2B, the APR-39E(V)2, MRWR, is an Army ECP to APR-39D(V)2, approved in the ADM signed June 24, 2019. This ECP will implement enhanced hardware and software upgrades to keep APR-39 technically relevant against new and emerging agile threats. APR-39E(V)2 is part of the suite of ASE mission equipment for the FVL platforms.

Phase 3 adds active RF-ECM capability for selected aircraft with MDD planned in the future.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605051A / *Aircraft Survivability Development*	Project (Number/Name) ER7 / *Aircraft Survivability Equipment Development*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Threat Management/ SEPM	Various	Various : -	14.344	1.167	Nov 2022	1.120	Nov 2023	0.770	Nov 2024	-		0.770	Continuing	Continuing	-
		Subtotal	14.344	1.167		1.120		0.770		-		0.770	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
APR-39E(V)2 SW & HW Development	Various	OGA : Aberdeen Proving Grounds, MD	133.261	5.773	Oct 2022	9.807	Oct 2023	3.933	Oct 2024	-		3.933	Continuing	Continuing	-
		Subtotal	133.261	5.773		9.807		3.933		-		3.933	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
DT/OT	Various	Various : -	9.579	2.560	Mar 2023	3.750	Mar 2024	-		-		-	Continuing	Continuing	-
Government System Test and Evaluation	Various	Various : -	36.743	2.142	Oct 2022	0.500	Oct 2023	-		-		-	Continuing	Continuing	-
		Subtotal	46.322	4.702		4.250		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	193.927	11.642		15.177		4.703		-		4.703	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ER7 / *Aircraft Survivability Equipment Development*

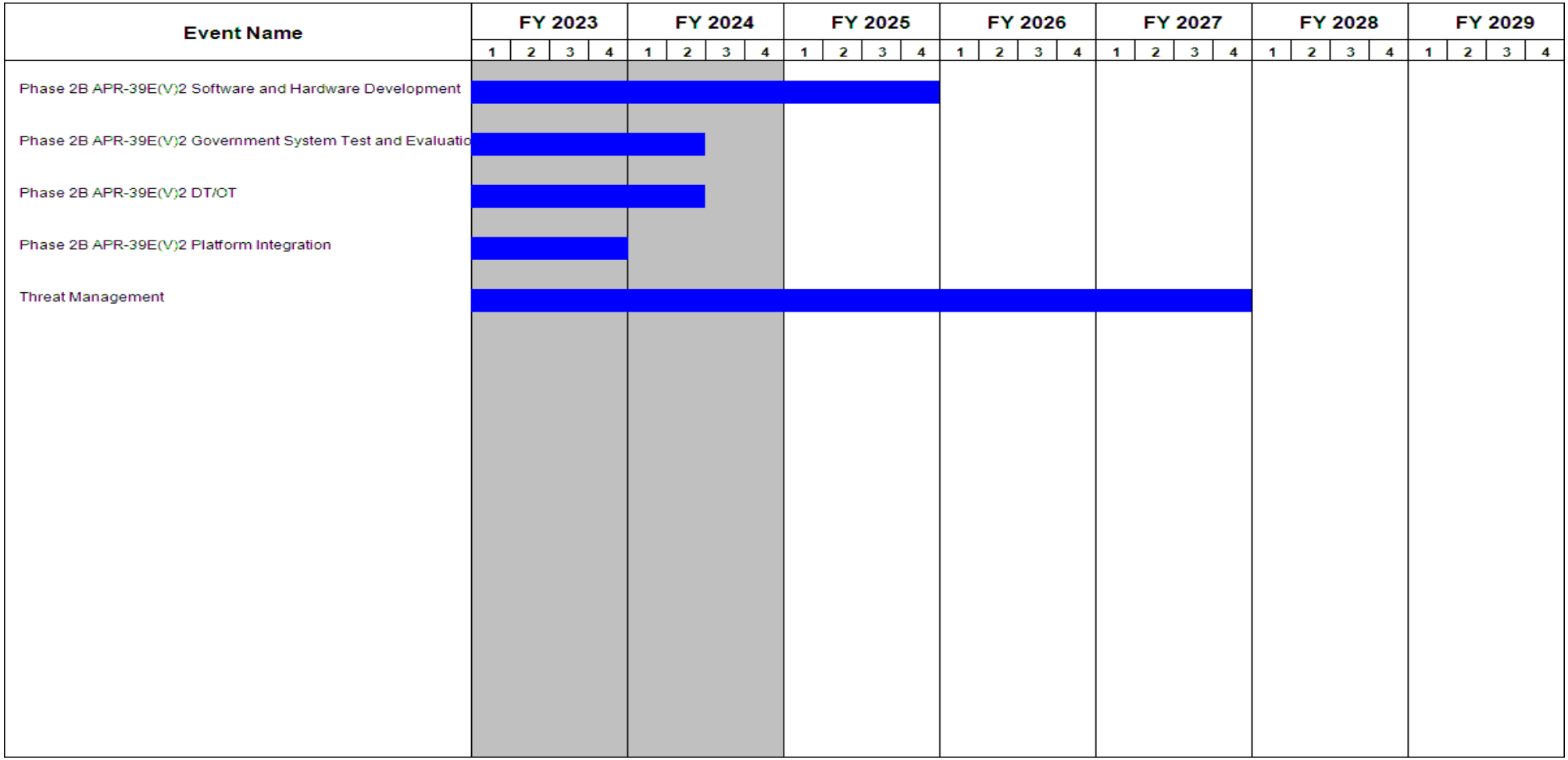

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ER7 / *Aircraft Survivability Equipment Development*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Threat Vulnerability Analysis//SIL Updates	3	2016	4	2017
Phase 2B APR-39E(V)2 Software and Hardware Development	2	2018	4	2025
Phase 2B APR-39E(V)2 Government System Test and Evaluation	3	2021	2	2024
Phase 2B APR-39E(V)2 DT/OT	2	2022	2	2024
Phase 2B APR-39E(V)2 Platform Integration	2	2020	4	2023
Threat Management	4	2020	4	2027

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605051A / *Aircraft Survivability Development*				Project (Number/Name) ER8 / *Common Missile Warning System (CMWS)*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
ER8: *Common Missile Warning System (CMWS)*	-	6.783	9.723	5.097	-	5.097	4.714	4.764	4.818	4.866	0.000	40.765
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Common Missile Warning System (CMWS) program is a missile warning system that cues both flare and laser-based countermeasures to defeat incoming Infrared (IR) seeking missiles and will alert aircrews to the presence of certain incoming munitions. The B-Kit consists of the components which perform the missile detection and aircrew notification, munitions detection and aircrew notification, false alarm rejection, and countermeasure employment/cueing functions of the system. The CMWS Electronic Control Unit (ECU) receives ultraviolet (UV) missile detection data from Electro-Optic Missile Sensors (EOMS), which detect UV signals, and sends a missile alert signal to warn aircrews via on-board avionics. Tier 1 threat missiles detected and tracked by the CMWS are subsequently defeated by a combination of missile seeker countermeasures, including decoy flares and IR Laser Jamming (currently Common Infrared Countermeasures (CIRCM) and Advanced Threat Infrared Countermeasures (ATIRCM) equipped CH-47 platform only). In addition, the CMWS ECU receives from the EOMS munitions detection data which it also passes to the aircrew through aural and visual alerts. The aircrew then applies the appropriate Tactics, Techniques and Procedures (TTPs) to break contact or engage the enemy with own-ship ordnance. The CMWS Generation 3 (Gen 3) ECU in conjunction with ongoing software development efforts will address outstanding materiel release conditions and ensure protection against emerging IR-guided missile threats. Due to evolving threats, CMWS will remain in the Army inventory beyond 2040 and must remain relevant against emerging threats.

The A-Kit for CMWS includes mounting hardware, wiring harnesses, cables, 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.

As a part of Phase 2a of the Joint Urgent Operational Needs Statement (JUONS) (SO-0010) program, the Army integrated the DoN LAIRCM system onto the Army and Special Operations Aircraft Platforms. Due to a number of challenges, circumstances, and variables, the Army updated the Advanced Threat Warning/CIRCM QRC and LIMWS Directed Requirements (dated November 16, 2018). The updated requirements extended the utilization of ATW DoN LAIRCM on conventional Army aircraft and canceled the need for the ATW/CIRCM QRC system for the conventional Army. (It should be noted that the updated requirement maintained the need for ATW/CIRCM on the Special Operations Aircraft. Sustainment of ATW on Special Operations Aircraft were transferred 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. As of FY 2025, the ATW and JUONS RDT&E efforts have been completed, and aircraft deployed with JUONS have been de-modified.

Phase 4 Limited Interim Missile Warning System Quick Reaction Capability (LIMWS QRC) addresses the Headquarters Department of the Army (HQDA) Directed Requirement to provide a greater capability than CMWS, the current Program of Record (POR), to bridge the gap between CMWS and the future threat detection system, the Improved Threat Detection System (ITDS). LIMWS is required to provide increased detection range, improved detection in clutter, more agile algorithms to rapidly respond to emerging threats, and eliminates the need for sensor alignments.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ER8 / *Common Missile Warning System (CMWS)*

CMWS: FY 2025 Base Research Development Test and Evaluation (RDTE) dollars in the amount of $5.097 million will fund Future Sensor and Algorithm Analysis, Threat and Vulnerability Analysis, Systems Engineering and Program Management (SEPM).

LIMWS: LIMWS does not have funding in FY25.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: CMWS Product Development and Management Services	6.783	7.875	5.097
Description: Research Development Test and Evaluation (RDTE) funding supports continuing development engineering threat and vulnerability analysis, Systems Engineering and Program Management (SEPM), and integration with other ASE Systems. ***FY 2024 Plans:*** FY 2024 Base Research Development Test and Evaluation (RDTE) dollars in the amount of $7.875 million will fund Future Sensor and Algorithm Analysis, Threat and Vulnerability Analysis, Systems Engineering and Program Management (SEPM), Model Based System Engineering (MBSE), Aviation Artificial Intelligence (AI) Training Environment effort, and Future Vertical Lift (FVL). ***FY 2025 Plans:*** FY 2025 Base Research Development Test and Evaluation (RDTE) dollars in the amount of $5.097 million will fund Future Sensor and Algorithm Analysis, Threat and Vulnerability Analysis, Systems Engineering and Program Management (SEPM). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 includes decreased Base RDTE funding due to reduction of future sensor and algorithm analysis efforts.			
Title: Phase 4 LIMWS QRC	-	1.848	-
Description: Phase 4 Limited Interim Missile Warning System Quick Reaction Capability (LIMWS QRC) is a follow-on bridging solution to the Joint Urgent Operational Needs Statement (JUONS) SO-0010 to provide a greater capability than the current Program of Record (POR), Common Missile Warning System (CMWS), until the future threat detection system, the Improved Threat Detection System (ITDS). LIMWS is a Chief of Staff of the Army approved Directed Requirement issued by Army G-8 on March 26, 2017. LIMWS QRC provides an enhanced missile warning system to detect emerging and evolving enemy Man Portable Air Defense Systems (MANPADS) threats. ***FY 2024 Plans:*** FY 2024 Base Research Development Test and Evaluation (RDTE) dollars in the amount of $1.848 million fund United States Government (USG) Systems Engineering and Program Management (SEPM) and Threat Analysis and Algorithm Concepts. ***FY 2024 to FY 2025 Increase/Decrease Statement:***			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ER8 / *Common Missile Warning System (CMWS)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
LIMWS does not have funding in FY 2025.			
Accomplishments/Planned Programs Subtotals	6.783	9.723	5.097

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• AZ3517: *CMWS*	100.172	72.041	51.646	-	51.646	13.927	13.980	13.951	14.090	706.012	985.819

Remarks

D. Acquisition Strategy

CMWS: Procurement of US Government Common Missile Warning System (CMWS) A-Kit and B-Kits are complete. CMWS is managed as Mission Equipment for deploying units and fielded as directed by Headquarters Department of the Army (HQDA) G-3/5/7. The CMWS program will continue to be supported through a five year services-only Cost Plus Fixed Fee or Cost Plus Incentive Fee contract, with services which began on July 31, 2019.

Phase 2a JUONS DoN LAIRCM and Phase 3 CIRCM QRC: JUONS S0-0010 acquisition strategy includes aircraft prime contractor engineering support contracted to a Government test organization. Aircraft integration for JUONS will be handled through government operated organizations and industry partners.

Phase 4 Limited Interim Missile Warning System Quick Reaction Capability (LIMWS QRC): Acquisition strategy included a full and open competition for selection of prime vendor for development of B-Kits, development of A-Kits, and support testing for the lead program. Additional platform A-Kit development will be completed by government organizations, small business and industry partners.

Threat and Vulnerability analysis efforts will be used to determine if an algorithm update is required to maintain missile warning threat overmatch and provide input to improve US Government authoritative threat modeling updates.

Future Sensor and Algorithm Analysis development equally supports Man Portable Air Defense Systems (MANPADS) and Hostile Fire overmatch through evaluation of emerging sensor technologies and advances in algorithm techniques. This analysis identifies opportunities to optimize performance and modernize fielded systems in order to maintain relevance for the future.

CMWS Systems Engineering and Program Management (SEPM) is necessary due to the nature of emerging and current threat(s). Threat(s) analyses include, when required, collaboration support with intelligence organizations, course of action planning, root cause investigations, threat and laboratory hardware maintenance, and lab tools upgrade to support specific performance analyses.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ER8 / *Common Missile Warning System (CMWS)*

Development of Model Based Systems Engineering (MBSE) models of CMWS and LIMWS will align to Program Executive Office Aviation (PEO AVN) system engineering models. Continued MBSE development supports improved performance, weight reduction and testing.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605051A / *Aircraft Survivability Development*	Project (Number/Name) ER8 / *Common Missile Warning System (CMWS)*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CMWS Systems Engineering Program Management	Various	Various : PM ASE, HSV, AL	11.900	0.351	Jan 2023	1.017	Jan 2023	0.461	Jan 2025	-		0.461	Continuing	Continuing	Continuing
		Subtotal	11.900	0.351		1.017		0.461		-		0.461	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CMWS Future Sensor and Algorithm Analysis	Various	Various : Various	9.566	2.935	Mar 2023	3.251	Mar 2023	1.459	Mar 2025	-		1.459	Continuing	Continuing	-
Limited Interim Missile Warning System (LIMWS) - Development Engineering	Various	Various : PM ASE, HSV, AL	219.061	-		1.332	Mar 2023	-		-		-	Continuing	Continuing	Continuing
CMWS Threat and Vulnerability Analysis	Various	Various : Various	13.608	3.497	Mar 2023	3.607	Mar 2023	3.177	Mar 2025	-		3.177	Continuing	Continuing	Continuing
		Subtotal	242.235	6.432		8.190		4.636		-		4.636	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
LIMWS - Government Testing	Various	Various : PM ASE, HSV, AL	78.455	-		0.516	Mar 2023	-		-		-	Continuing	Continuing	Continuing
		Subtotal	78.455	-		0.516		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	332.590	6.783		9.723		5.097		-		5.097	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605051A / *Aircraft Survivability Development*	Project (Number/Name) ER8 / *Common Missile Warning System (CMWS)*	

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ER8 / *Common Missile Warning System (CMWS)*

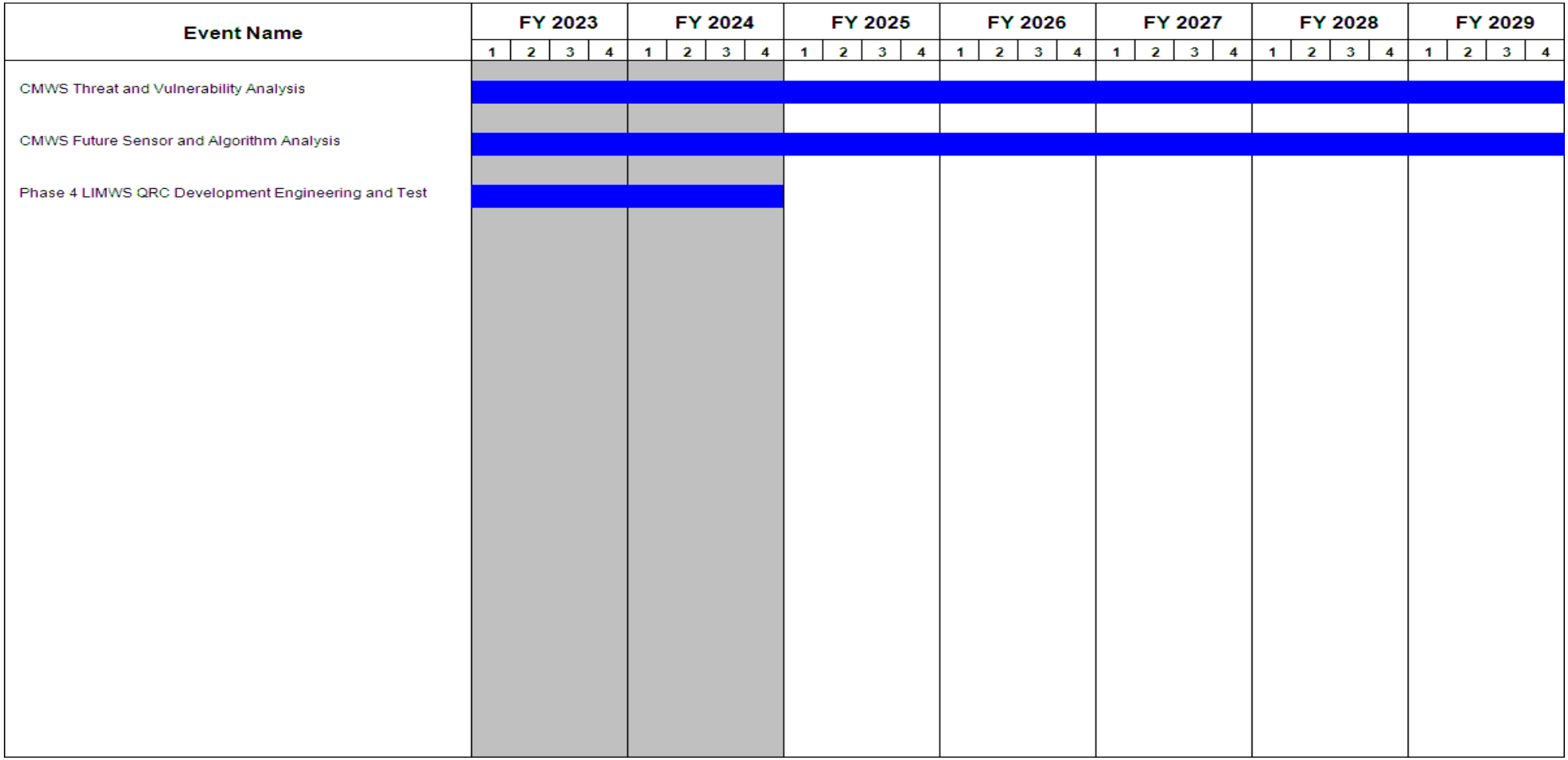

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ER8 / *Common Missile Warning System (CMWS)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
CMWS System Dev/Tier 2 and 3 Upgrades	2	2011	4	2019
CMWS Gen 3 Production	3	2012	4	2016
CMWS Threat Analysis Database (TAD)	2	2012	4	2019
CMWS Vulnerability Analysis and Assessment of Technology	2	2015	4	2019
CMWS Threat and Vulnerability Analysis	1	2020	4	2030
CMWS Future Sensor and Algorithm Analysis	1	2017	4	2030
Phase 3 ATW/CIRCM QRC Engineering, Integration, and Test	2	2016	1	2020
Phase 4 LIMWS QRC Development Engineering and Test	3	2017	4	2024

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605051A / *Aircraft Survivability Development*	Project (Number/Name) ITD / *Improved Threat Detection System (ITDS)*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
ITD: *Improved Threat Detection System (ITDS)*	-	-	-	28.425	-	28.425	-	-	-	-	0.000	28.425
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Funding transitioned from XT4 (PE 0605049A): Advanced Threat Detection System (ATDS) in FY24 to ITD (PE 0605051A): Improved Threat Detection System (ITDS) is a New Start in FY25.

A. Mission Description and Budget Item Justification

The ITDS (Improved Threat Detection System) 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 platforms. ITDS will use an incremental approach to align with PM ASE's System of Systems approach, including both detect and defeat capabilities, and integrate it onto an open system architecture digital backbone, improving full coverage against evolving threats in hostile environments.

ITDS applies a Middle Tier of Acquisition (MTA) adaptive acquisition pathway. PM ASE is executing this ITDS MTA Rapid Prototyping effort under an Other Transactional Authority agreement with multiple phases. The result will be a residual operational capability that will 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 munitions, Unmanned Aerial Vehicles (UAV), and Lasers.

Justification:
ITDS: FY2025 Base RDTE dollars in the amount of $28.425 million will fund continuation of development effort including prototype demonstration and test, execution of contract(s) to initiate Product Development, and program management/ technical oversight for ITDS.

References:
- 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 2023	FY 2024	FY 2025
Title: ITDS Product Development and Management Services	-	-	28.425

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ITD / *Improved Threat Detection System (ITDS)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: ITDS will use an incremental approach to align with PM ASE's System of Systems approach, including both detect and defeat capabilities, and integrate it onto an open system architecture digital backbone, improving full coverage against evolving threats in hostile environments. ***FY 2025 Plans:*** Improved Threat Detection System (ITDS): FY2025 Base RDTE dollars in the amount of $28.425 million will fund continuation of development effort including prototype demonstration and test, execution of contract(s) to initiate Product Development, and program management/ technical oversight for ITDS. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding transitioned from XT4 (PE 0605049A): Advanced Threat Detection System (ATDS) in FY24 to ITD (PE 0605051A): Improved Threat Detection System (ITDS) in FY25.			
Accomplishments/Planned Programs Subtotals	-	-	28.425

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• 0605049A: *Missile Warning System Modernization (MWSM)*	-	27.571	0.000	-	0.000	-	-	-	-	0.000	27.571

Remarks

Funding transitioned from XT4 (PE 0605049A): Advanced Threat Detection System (ATDS) in FY24 to ITD (PE 0605051A): Improved Threat Detection System (ITDS) in FY25.

D. Acquisition Strategy

ITDS is an FY2024 (PE 0605049A) new start program applying a Middle Tier of Acquisition (MTA) adaptive acquisition pathway. PM ASE is executing this ITDS MTA Rapid Prototyping effort under an Other Transactional Authority agreement with multiple phases. The result will be a residual operational capability that will 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 munitions, Unmanned Aerial Vehicles (UAV), and Lasers.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605051A / *Aircraft Survivability Development*	Project (Number/Name) ITD / *Improved Threat Detection System (ITDS)*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering Program Management	TBD	Various : Various	-	-		-		2.727	Nov 2024	-		2.727	0.000	2.727	-
		Subtotal	-	-		-		2.727		-		2.727	0.000	2.727	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Engineering	TBD	Various : Various	-	-		-		13.612	Dec 2024	-		13.612	0.000	13.612	-
		Subtotal	-	-		-		13.612		-		13.612	0.000	13.612	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Threat Warning Lab (ITWL)	TBD	Various : Various	-	-		-		1.506	Mar 2025	-		1.506	0.000	1.506	-
Government B-Kit Testing	TBD	Various : Various	-	-		-		10.580	Mar 2025	-		10.580	0.000	10.580	-
		Subtotal	-	-		-		12.086		-		12.086	0.000	12.086	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		28.425		-		28.425	0.000	28.425	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ITD / *Improved Threat Detection System (ITDS)*

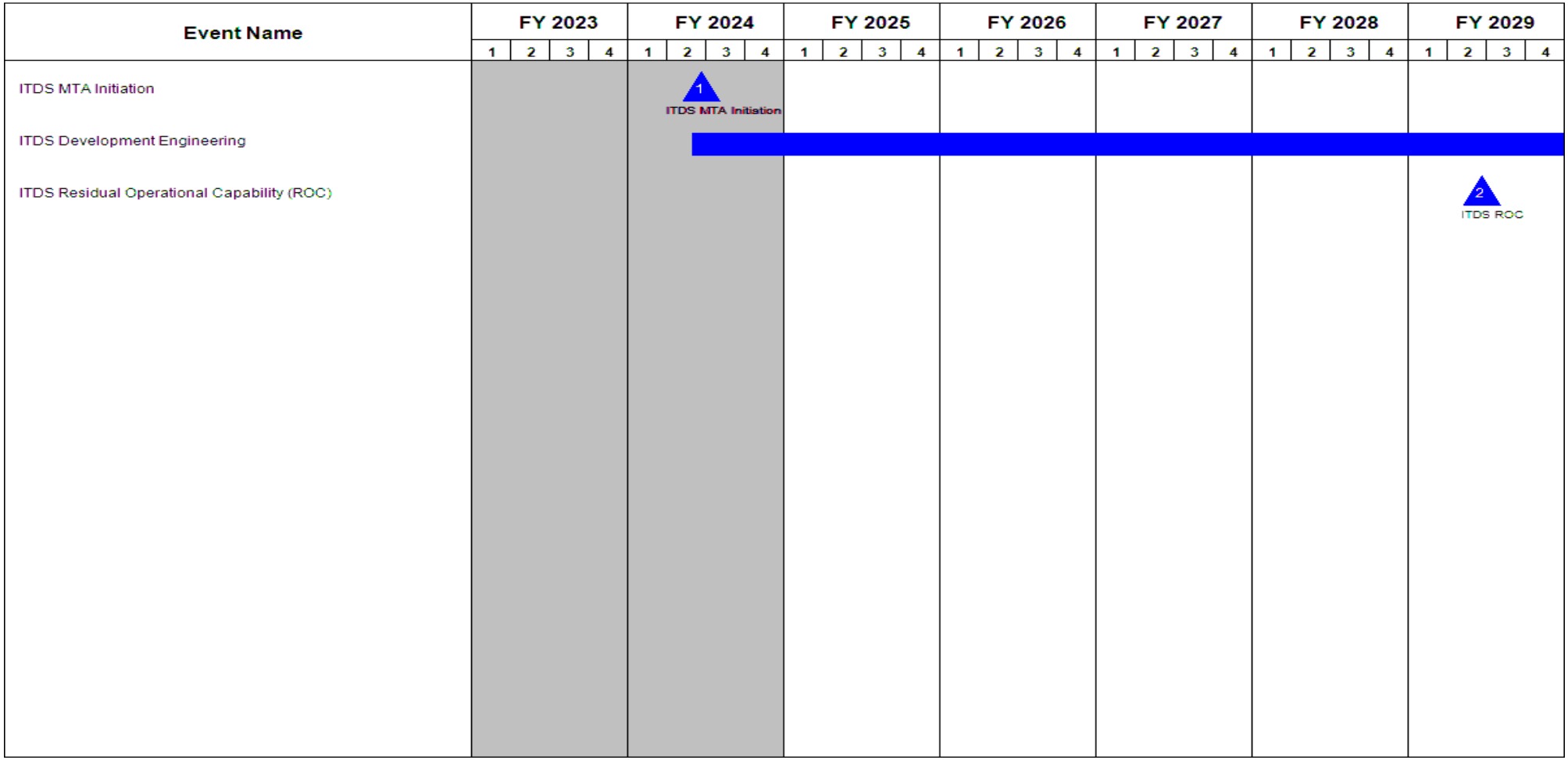

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605051A / *Aircraft Survivability Development*	**Project (Number/Name)** ITD / *Improved Threat Detection System (ITDS)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
PEO Acquisition Decision Memorandum 9ADM)	1	2019	1	2019
Enhanced Market Research	2	2019	2	2020
Enhanced Market Research Report	2	2020	2	2020
ITDS MTA Initiation	2	2024	2	2024
ITDS Development Engineering	2	2024	4	2029
ITDS Residual Operational Capability (ROC)	2	2029	2	2029

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605052A *I Indirect Fire Protection Capability Inc 2 - Block 1*

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	126.308	196.248	167.912	-	167.912	199.241	63.965	65.244	150.204	0.000	969.122
EY7: *IFPC Increment 2 - Block 1*	-	126.308	196.248	138.553	-	138.553	117.923	10.862	11.139	136.733	0.000	737.766
EY8: *IFPC Increment 2 - Block 2*	-	-	-	29.359	-	29.359	81.318	53.103	54.105	13.471	0.000	231.356

Note

Starting in Fiscal Year (FY) 2025, IFPC 2nd Interceptor Development efforts have been realigned from Project EY7/IFPC Increment 2 - Block 1 to Project/EY8 IFPC Increment 2 - Block 2. within PE 0605052A / Indirect Fire Protection Capability Inc 2 - Block 1.

A. Mission Description and Budget Item Justification

This funding line is directly aligned to one of the Army Air and Missile Defense Modernization Priorities and one of the Air and Missile Defense Cross Functional Team (AMD CFT) programs.

The EY7 Indirect Fire Protection Capability Increment 2 (IFPC Inc 2) - Block 1 will provide a ground-based weapon system designed to acquire, track, engage, and defeat subsonic Cruise Missiles (CM), Unmanned Aircraft Systems (UAS), Rocket, Artillery, and Mortar (RAM) threats. The IFPC Inc 2 system consists of a launcher and interceptor integrated with the Army Integrated Air and Missile Defense (AIAMD) open systems architecture, IAMD Battle Command System (IBCS), and the Sentinel sensor to support the CM and UAS defeat mission.

The IFPC Inc 2 program 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 component integration, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.

The total cost of the IFPC Inc 2 Middle Tier of Acquisition (MTA) effort is $531.3 million from FY21 to FY25.

The Army is pursuing the IFPC High Energy Laser (IFPC HEL) and IFPC High Powered Microwave (IFPC HPM) as complimentary non-kinetic effectors of the IFPC counter-RAM, counter-CM, and counter-UAS missions.

The EY8 IFPC Increment 2 - Block 2 (IFPC 2nd Interceptor) will expand additional capabilities against supersonic cruise missiles with a secondary target set of UAS, large caliber rockets, and other aerial threats. The 2nd Interceptor program also supports the Air and Missile Defense modernization priorities.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army					Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*			R-1 Program Element (Number/Name) PE 0605052A *I Indirect Fire Protection Capability Inc 2 - Block 1*		
B. Program Change Summary ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Previous President's Budget	131.093	196.248	154.275	-	154.275
Current President's Budget	126.308	196.248	167.912	-	167.912
Total Adjustments	-4.785	0.000	13.637	-	13.637
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-4.785	-			
• Adjustments to Budget Years	-	-	13.637	-	13.637

Change Summary Explanation

In FY 2025, $41.000 million was realigned from procurement (C62002) to RDTE (655052/EY7) for development and integration of the datalink solution and $27.700 million was reduced from the IFPC 2nd Interceptor RDTE (655052EY8). Furthermore, increase of $0.337 million due to revised economic assumptions.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	Project (Number/Name) EY7 / *IFPC Increment 2 - Block 1*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EY7: *IFPC Increment 2 - Block 1*	-	126.308	196.248	138.553	-	138.553	117.923	10.862	11.139	136.733	0.000	737.766
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Air and Missile Defense Modernization Priority.

The Indirect Fire Protection Capability Increment 2 (IFPC Inc 2) - Block 1 will provide a ground-based weapon system designed to acquire, track, engage, and defeat Cruise Missiles (CM), Unmanned Aircraft Systems (UAS), and Rocket, Artillery, and Mortar (RAM) threats. The IFPC Inc 2 system consists of a launcher and interceptor integrated with the Army Integrated Air and Missile Defense (AIAMD) open systems architecture, IAMD Battle Command System (IBCS), and the Sentinel sensor to support the Threshold CM and UAS defeat mission.

Additionally, the Army plans to pursue the IFPC High Energy Laser (IFPC HEL) and IFPC High Powered Microwave (IFPC HPM) as non-kinetic effectors of the IFPC counter-RAM, counter-CM, and counter-UAS (Class 1 - 3) missions. The IFPC HEL and IFPC HPM elements will be robust, cost effective, and sustainable complementary capabilities to the overall IFPC mission to protect key fixed and semi-fixed sites.

FY 2025 Base dollars in the amount of $138.553 million is designated for integration within the Army IAMD architecture, delta system qualification testing, delta development testing, development and integration of the prime contractor and subcontractor's datalink solution, and continual support of the IFPC HEL and IFPC HPM transition team. IFPC Inc 2 is scheduled for a Milestone (MS) C decision in FY 2025.

The total cost of the IFPC Inc 2 Middle Tier of Acquisition (MTA) effort is $531.3 million from FY21 to FY25.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: IFPC Inc 2 Prototype Development, Integration, Manufacturing, and Testing	125.063	192.311	136.184
Description: Funding is provided to support the development, integration, prototype manufacturing, and testing of the IFPC Inc 2 capability			
FY 2024 Plans: - Final incremental funding for IFPC Inc 2 Other Transaction Authority (OTA) Firm Fixed Price contract - Continue utilizing a Middle Tier Acquisition (MTA) Rapid prototyping approach while preparing for Milestone C decision point - Continue qualification and operational testing, to include an Operational Assessment, to ensure operational supportability while minimizing the logistical footprint			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	**Project (Number/Name)** EY7 / *IFPC Increment 2 - Block 1*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
- Procure 12 IFPC launch systems consisting of 12 launchers, 48 interceptors, and 8 magazines for Initial Operational Test & Evaluation (IOT&E) ***FY 2025 Plans:*** - Continue and complete an Operational Assessment to ensure operational supportability - Continue utilizing a Middle Tier Acquisition (MTA) Rapid prototyping approach while preparing for Milestone C decision point - Continue delta qualification testing and delta developmental testing - Conduct extreme natural environment testing (XNET) - Begin new equipment training (NET) for IOT&E - Develop and integrate the prime contractor and subcontractor's datalink solution - Support the Integrated Fires Test Campaign - Continue acquisition and delivery of IFPC IOT&E test assets ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding decreases from FY 2024 to FY 2025 reflect the program exiting the MTA and entering MS C in FY 2025.			
Title: IFPC Directed Energy Integration and Test ***FY 2024 Plans:*** Continue to support an IFPC Direct Energy team to coordinate the transfer of responsibility, as well as determine IFPC Inc 2 Product Office requirements for these products ***FY 2025 Plans:*** - Continue to provide an IFPC Directed Energy team to facilitate the Army Rapid Capabilities and Critical Technologies Office (RCCTO) with the transition of the Directed Energy capabilities to programs of record, as well as determine IFPC Inc 2 Product Office requirements for IFPC HEL and IFPC HPM ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase in the IFPC Directed Energy Integration and Test (Transition Team) costs with the transition of the Directed Energy capabilities to programs of record.	1.245	2.300	2.369
Title: IFPC Second Interceptor Development and Test ***FY 2024 Plans:*** Funding is to support initiation of the IFPC Second Interceptor program. Development of contract requirement package, planning for contract award, conduct of analyses, and development of acquisition documentation to support initiation of the Second Interceptor program. ***FY 2024 to FY 2025 Increase/Decrease Statement:***	-	1.637	-

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	**Project (Number/Name)** EY7 / *IFPC Increment 2 - Block 1*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Decrease due to Second Interceptor receiving a separate funding line, Project EY7/IFPC Increment 2 - Block 1 to Project/EY8 IFPC Increment 2 - Block 2. within PE 0605052A / Indirect Fire Protection Capability Inc 2 - Block 1.			
Accomplishments/Planned Programs Subtotals	126.308	196.248	138.553

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• C62002: *IFPC INC 2-I BLOCK 1 SYSTEM*	22.709	313.189	411.430	-	411.430	663.872	786.454	802.826	997.832	0.000	3,998.312
• E10: *Sentinel*	77.158	94.944	44.927	-	44.927	19.024	22.051	19.641	28.244	0.000	305.989
• WK5057: *Sentinel Mods*	214.736	161.886	180.253	-	180.253	493.037	505.210	461.565	467.189	Continuing	Continuing
• S40: *Army Integrated Air and Missile Defense*	245.791	254.163	525.963	-	525.963	412.252	394.003	310.057	316.151	0.000	2,458.380
• BZ5075: *IAMD Battle Command System*	459.343	412.556	403.028	-	403.028	584.262	651.373	449.114	509.060	Continuing	Continuing
• BU9: *IFPC High Energy Laser*	208.943	85.852	31.643	-	31.643	-	-	-	-	0.000	326.438
• CO6: *IFPC High Power Microwave (HPM)*	41.408	11.166	4.031	-	4.031	-	-	-	-	0.000	56.605

Remarks

This program is an integral part of the Army Integrated Air and Missile Defense (AIAMD) architecture.

D. Acquisition Strategy

In support of the Army's enduring Cruise Missile Defense requirement, the Army is utilizing a Middle Tier Acquisition (MTA) Rapid Prototyping approach to evaluate new capability and provide an initial capability, while transitioning to Milestone (MS) C and awarding a Low Rate Initial Production (LRIP) in FY 2025. In support of the IFPC Inc 2 solution, the Army pursued a competitive strategy that saw industry participating in a "Shoot Off" demonstration in FY 2021 using industry's proposed launcher and missile solutions integrated with the Army's IBCS and Sentinel radar. The Army has evaluated industry's proposals informed by models and simulations, hardware-in-the-loop, and live fire data, to make a best value recommendation to proceed to a single vendor to deliver the IFPC Inc 2 prototype solution. The Army awarded a Firm Fixed Price Other Transaction Authority (OTA) agreement to Dynetics, Inc. on 24 September 2021 to deliver the IFPC Inc 2 prototype solution. The MTA contract will run through FY 2025.

The IFPC Inc 2 program 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 component integration, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	**Project (Number/Name)** EY7 / *IFPC Increment 2 - Block 1*

In support of the IFPC Inc 2 system test and evaluation, the program office will acquire AIM-9X interceptors from the Navy contract and Launchers with all up round magazines (AUR-M) from Dynetics. The program will fully fund the assets to meet the delivery schedule required to perform IOT&E in FY 2026.

The requirement document for IFPC Inc 2 is the IFPC Inc 2 CDD, Nov 2016.

Additionally, the Army plans to pursue the IFPC High Energy Laser (IFPC HEL) and IFPC High Powered Microwave (IFPC HPM) as non-kinetic effectors of the IFPC counter-RAM, counter-CM, and counter-UAS missions. The Army RCCTO currently manages the IFPC HEL and IFPC HPM programs; the Army will make formal decisions on transitioning the capabilities to programs of record after the prototypes have been sufficiently tested. The IFPC Inc 2 Product Office established an initial IFPC Directed Energy team to coordinate the transfer of responsibility, as well as determine IFPC Inc 2 Product Office requirements for these products starting in FY 2023. The products will require additional development, integration with the AIAMD architecture, and testing.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	Project (Number/Name) EY7 / *IFPC Increment 2 - Block 1*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel/Program Management	Various	Various : Various	1.995	0.048	Oct 2022	0.682	Oct 2023	0.649	Oct 2024	-		0.649	Continuing	Continuing	Continuing
		Subtotal	1.995	0.048		0.682		0.649		-		0.649	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IFPC - System Eng & Integration	Various	Multiple Activities : Huntsville, AL	78.189	8.108	Oct 2022	11.140	Oct 2023	9.517	Oct 2024	-		9.517	Continuing	Continuing	Continuing
IFPC System Dev and Integration External Support	Various	Multiple Activities : Huntsville, AL	86.121	75.833	Oct 2022	37.215	Oct 2023	26.035	Oct 2024	-		26.035	Continuing	Continuing	Continuing
IFPC Contractor Prototype OTA, Modifications/ Change Orders	C/FFP	Launcher and AUR-M Development : Dynetics - Huntsville, AL	161.345	37.381	Mar 2023	1.500	Jan 2024	19.364	Jan 2025	-		19.364	Continuing	Continuing	Continuing
IFPC Directed Energy Integration Support	Various	Multiple Activities : Huntsville, AL	-	1.245	Apr 2023	2.300	Jan 2024	2.369	Jan 2025	-		2.369	Continuing	Continuing	Continuing
IFPC 2nd Interceptor Support	C/TBD	Multiple Activities : Huntsville, AL	-	-		1.637	Jan 2024	-		-		-	0.000	1.637	-
IFPC IOT&E Contractor Hardware	SS/FP	Dynetics : Huntsville, AL	-	-		79.715	Mar 2024	11.051	Mar 2025	-		11.051	0.000	90.766	-
IFPC IOT&E Interceptors / GFE	Various	US Navy : Huntsville, AL	-	-		34.427	Mar 2024	1.167	Mar 2025	-		1.167	0.000	35.594	-
IFPC Datalink	Various	Multiple Activities : Multiple Locations	-	-		-		41.000	Jan 2025	-		41.000	0.000	41.000	-
		Subtotal	325.655	122.567		167.934		110.503		-		110.503	Continuing	Continuing	N/A

Remarks

- IFPC Contractor Prototype OTA, Modifications/Change Orders FY 2025 funding of $19.364 million is for engineering change orders following the Operational Assessment and Developmental Testing required to facilitate successful Milestone C decision in FY 2025.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	Project (Number/Name) EY7 / *IFPC Increment 2 - Block 1*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
- The IFPC Datalink of $41 million in FY 2025 includes development, integration and test of the interim datalink solution, and it includes initiation of the enduring datalink solution. The driving factors for the $41 million requirement include materials for data link hardware; software updates; firmware updates; and contractor assembly, integration, and test. This includes development and integration of the prime contractor and subcontractor's datalink solution using the Government Systems Integration Lab (GSIL) and the Integrated Fires Testing. - IFPC System Dev and Integration External Support is to support AIAMD integration.															

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IFPC Log Support	Various	Multiple Activities : Huntsville, AL	22.623	0.160	Nov 2022	4.118	Nov 2023	6.576	Nov 2024	-		6.576	Continuing	Continuing	-
		Subtotal	22.623	0.160		4.118		6.576		-		6.576	Continuing	Continuing	N/A

Remarks

- Increase in IFPC Log Support due to new equipment training (NET) for IOT&E.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IFPC PM Testing Support	IA	Multiple Activities : Huntsville, AL	4.956	1.535	Nov 2022	2.445	Nov 2023	2.089	Nov 2024	-		2.089	Continuing	Continuing	Continuing
IFPC Developmental / Operational Testing	IA	Developmental and Operational Tests : Multiple Locations	7.953	1.998	Nov 2022	21.069	Nov 2023	18.736	Nov 2024	-		18.736	Continuing	Continuing	Continuing
		Subtotal	12.909	3.533		23.514		20.825		-		20.825	Continuing	Continuing	N/A

Remarks

- IFPC Developmental /Operational Testing FY 2025 funding to support conduct of XNET, delta qualification testing, delta developmental testing, and participation in the Integrated Fires Test Campaign.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	Project (Number/Name) EY7 / *IFPC Increment 2 - Block 1*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	363.182	126.308		196.248		138.553		-		138.553	Continuing	Continuing	N/A

Remarks

- IFPC Contractor Prototype OTA, Modifications/Change Orders funding was awarded to Dynetics, Inc with Raytheon as a subcontractor.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	**Project (Number/Name)** EY7 / *IFPC Increment 2 - Block 1*

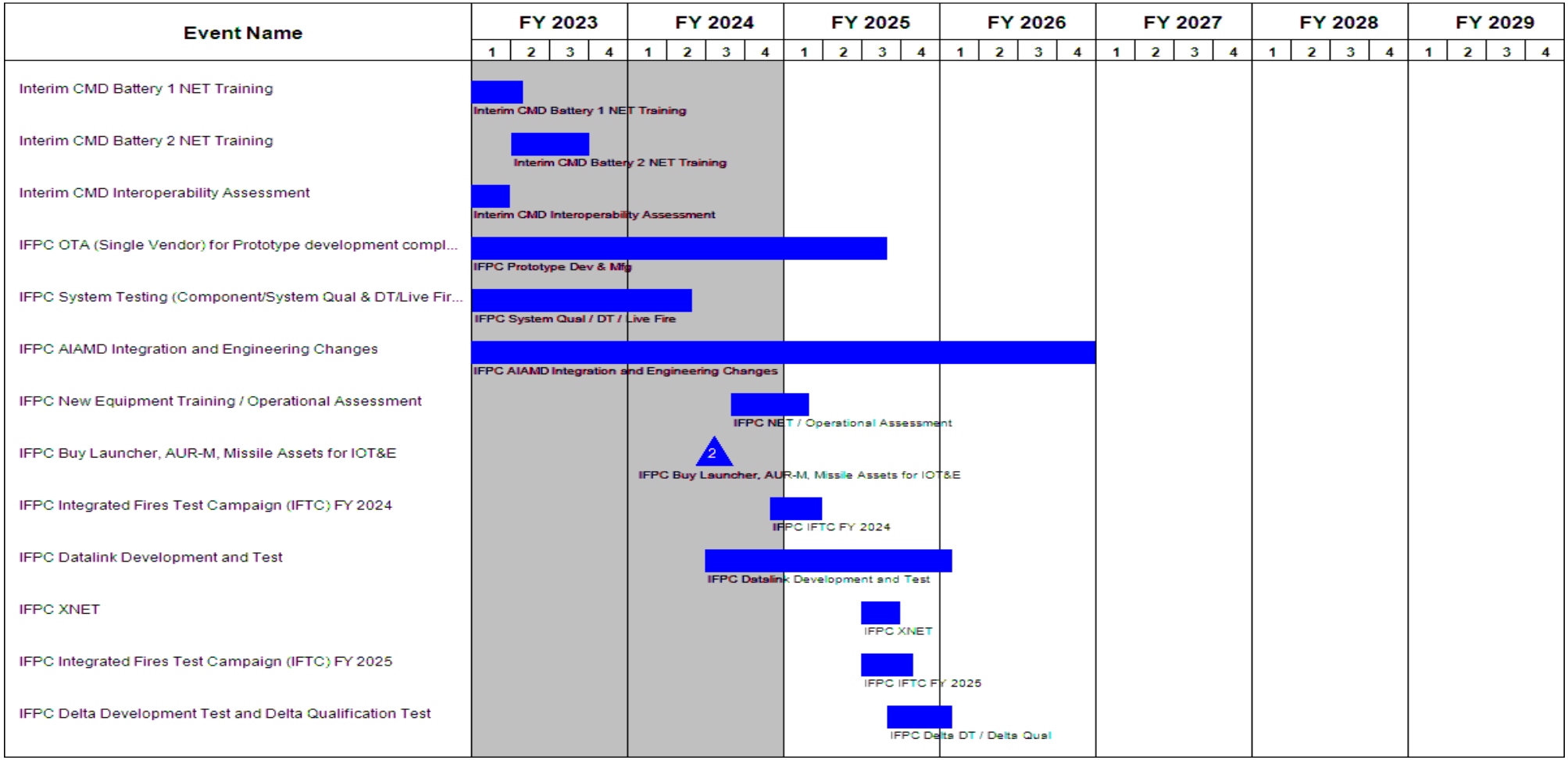

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	**Project (Number/Name)** EY7 / *IFPC Increment 2 - Block 1*

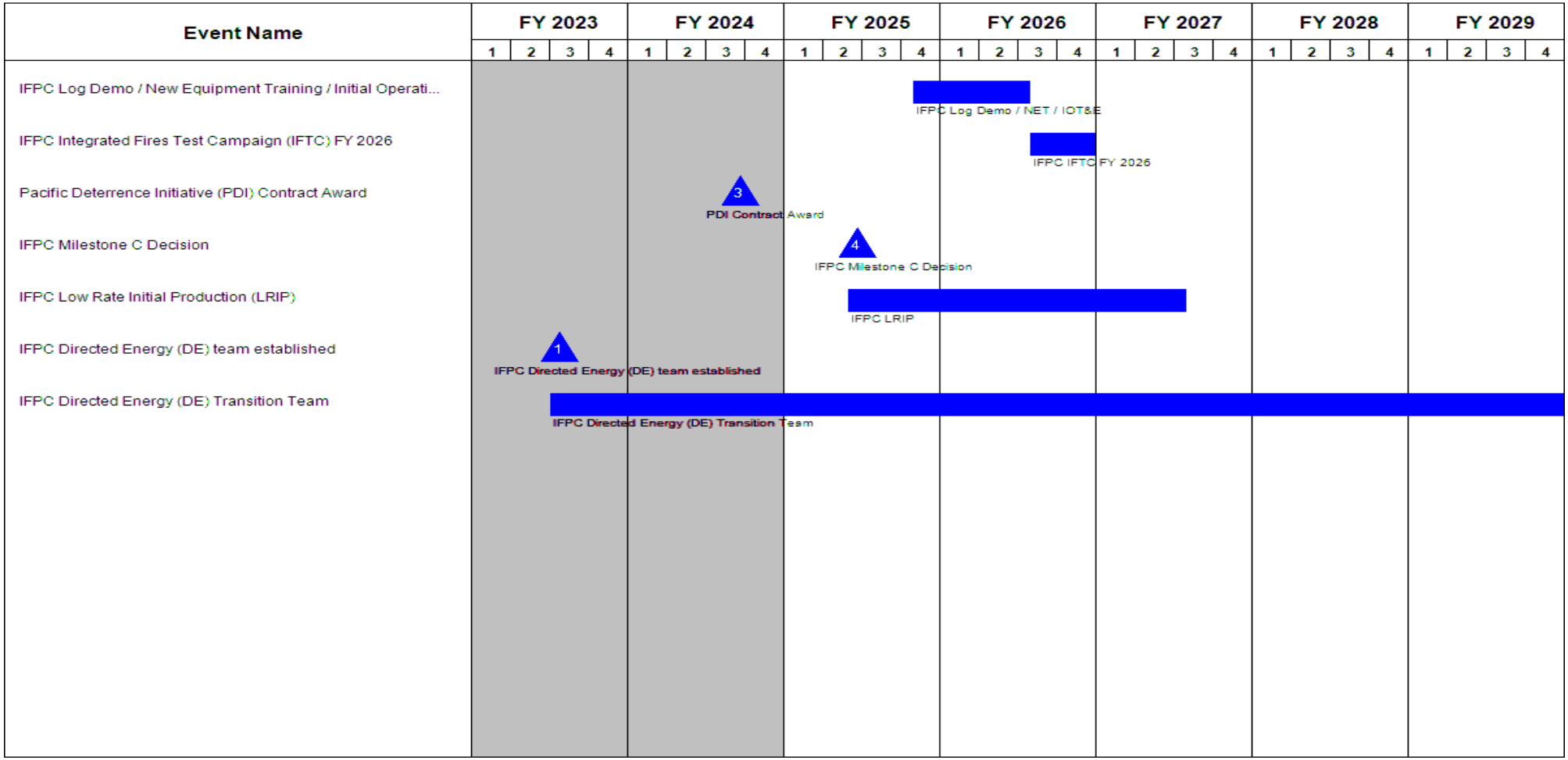

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	**Project (Number/Name)** EY7 / *IFPC Increment 2 - Block 1*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Interim CMD Interoperability development and testing	4	2020	3	2022
Interim CMD Battery 1 NET Training	4	2022	1	2023
Interim CMD Battery 2 NET Training	2	2023	3	2023
Interim CMD Interoperability Assessment	4	2022	1	2023
IFPC OTA (Single Vendor) for Prototype development completion and manufacturing	4	2021	3	2025
IFPC System Testing (Component/System Qual & DT/Live Fire Testing)	1	2023	2	2024
IFPC AIAMD Integration and Engineering Changes	3	2021	4	2026
IFPC New Equipment Training / Operational Assessment	3	2024	1	2025
IFPC Buy Launcher, AUR-M, Missile Assets for IOT&E	3	2024	3	2024
IFPC Integrated Fires Test Campaign (IFTC) FY 2024	4	2024	1	2025
IFPC Datalink Development and Test	3	2024	1	2026
IFPC XNET	3	2025	3	2025
IFPC Integrated Fires Test Campaign (IFTC) FY 2025	3	2025	4	2025
IFPC Delta Development Test and Delta Qualification Test	3	2025	1	2026
IFPC Log Demo / New Equipment Training / Initial Operational Test & Evaluation (IOT&E)	4	2025	3	2026
IFPC Integrated Fires Test Campaign (IFTC) FY 2026	3	2026	4	2026
Pacific Deterrence Initiative (PDI) Contract Award	3	2024	3	2024
IFPC Milestone C Decision	2	2025	2	2025
IFPC Low Rate Initial Production (LRIP)	2	2025	3	2027
IFPC Directed Energy (DE) team established	3	2023	3	2023
IFPC Directed Energy (DE) Transition Team	3	2023	4	2029

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	**Project (Number/Name)** EY7 / *IFPC Increment 2 - Block 1*

Note

CMD: Cruise Missiles Defense
FUE: First Unit Equipped
FY: Fiscal Year
IFPC: Indirect Fire Protection Capability
HEL: High Energy Laser
HPM: High Powered Microwave

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	Project (Number/Name) EY8 / *IFPC Increment 2 - Block 2*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EY8: *IFPC Increment 2 - Block 2*	-	-	-	29.359	-	29.359	81.318	53.103	54.105	13.471	0.000	231.356
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Starting in Fiscal Year (FY) 2025, IFPC 2nd Interceptor Development efforts have been realigned from Project EY7/IFPC Increment 2 - Block 1 to Project/EY8 IFPC Increment 2 - Block 2. within PE 0605052A / Indirect Fire Protection Capability Inc 2 - Block 1.

A. Mission Description and Budget Item Justification

The IFPC Increment 2 - Block 2 (IFPC 2nd Interceptor program) supports the Air and Missile Defense modernization priorities. The 2nd Interceptor will maintain baseline capabilities and increase lethality and increase range. The primary threat set for the 2nd Interceptor is subsonic and supersonic cruise missiles with the secondary target set as Group 2 & 3 UAS at extended ranges, large caliber rockets, and fixed and rotary wing aircraft. The 2nd Interceptor consists of an AUR-M with interceptors integrated with the Army Integrated Air and Missile Defense (AIAMD) open systems architecture, IAMD Battle Command System (IBCS), and the Sentinel sensor.

In FY 2025, funding in the amount of $29.359 million will be used to award a contract and support the development, integration, testing, and prototype manufacturing of the IFPC 2nd Interceptor capability.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: IFPC 2nd Interceptor Development and Test	-	-	29.359
Description: Funding is to support the development, integration, prototype manufacturing, and test of the IFPC 2nd Interceptor capability. ***FY 2025 Plans:*** - Will receive Aquisition Decision Memorandum (ADM) in 1st Quarter FY 2025 for authority to proceed to an Acquisition Pathway. - Evaluate proposal(s) for contract award. - The Contracting Officer (KO) will finish negotiations and award the contract. - Support contract kick-off meeting. - Initiate Development and Integration ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase reflects IFPC 2nd Interceptor Development efforts have been realigned from Project EY7/IFPC Increment 2 - Block 1.			
Accomplishments/Planned Programs Subtotals	-	-	29.359

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	**Project (Number/Name)** EY8 / *IFPC Increment 2 - Block 2*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The IFPC 2nd Interceptor Acquisition Strategy Panel (ASP) #2 planned for Mar 2024 will determine the acquisition pathway; will receive the ADM for authority to proceed during the 1st quarter FY 2025. The IFPC 2nd Interceptor plans on awarding a contract in FY 2025 to design, develop, integrate, and test prototypes before transitioning to production. The 2nd Interceptor addresses several extremely high-risk capability gaps.

The requirement document for IFPC 2nd Interceptor is the IFPC Inc 2 CDD, Nov 2016.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	Project (Number/Name) EY8 / *IFPC Increment 2 - Block 2*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	TBD	SETA : Various	-	-		-		0.952	Oct 2024	-		0.952	0.000	0.952	-
		Subtotal	-	-		-		0.952		-		0.952	0.000	0.952	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
PM System Engineering	TBD	SETA : Various	-	-		-		2.379	Oct 2024	-		2.379	0.000	2.379	-
System Development/ Integration External Support	TBD	Various : Various	-	-		-		7.748	Nov 2024	-		7.748	0.000	7.748	-
IFPC 2nd Interceptor Development Contract	TBD	Various : Various	-	-		-		17.731	May 2025	-		17.731	0.000	17.731	-
		Subtotal	-	-		-		27.858		-		27.858	0.000	27.858	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
PM Log Support	TBD	SETA : Various	-	-		-		0.183	Dec 2024	-		0.183	0.000	0.183	-
		Subtotal	-	-		-		0.183		-		0.183	0.000	0.183	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
PM Test Support	TBD	SETA : Various	-	-		-		0.366	Dec 2024	-		0.366	0.000	0.366	-
		Subtotal	-	-		-		0.366		-		0.366	0.000	0.366	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	Project (Number/Name) EY8 / *IFPC Increment 2 - Block 2*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		29.359		-		29.359	0.000	29.359	N/A

Remarks

The 2nd Interceptor's FY 2024 initial program and development support is funded under IFPC Inc 2 (655052EY7). For FY 2024 details, see the EY7 line.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	**Project (Number/Name)** EY8 / *IFPC Increment 2 - Block 2*

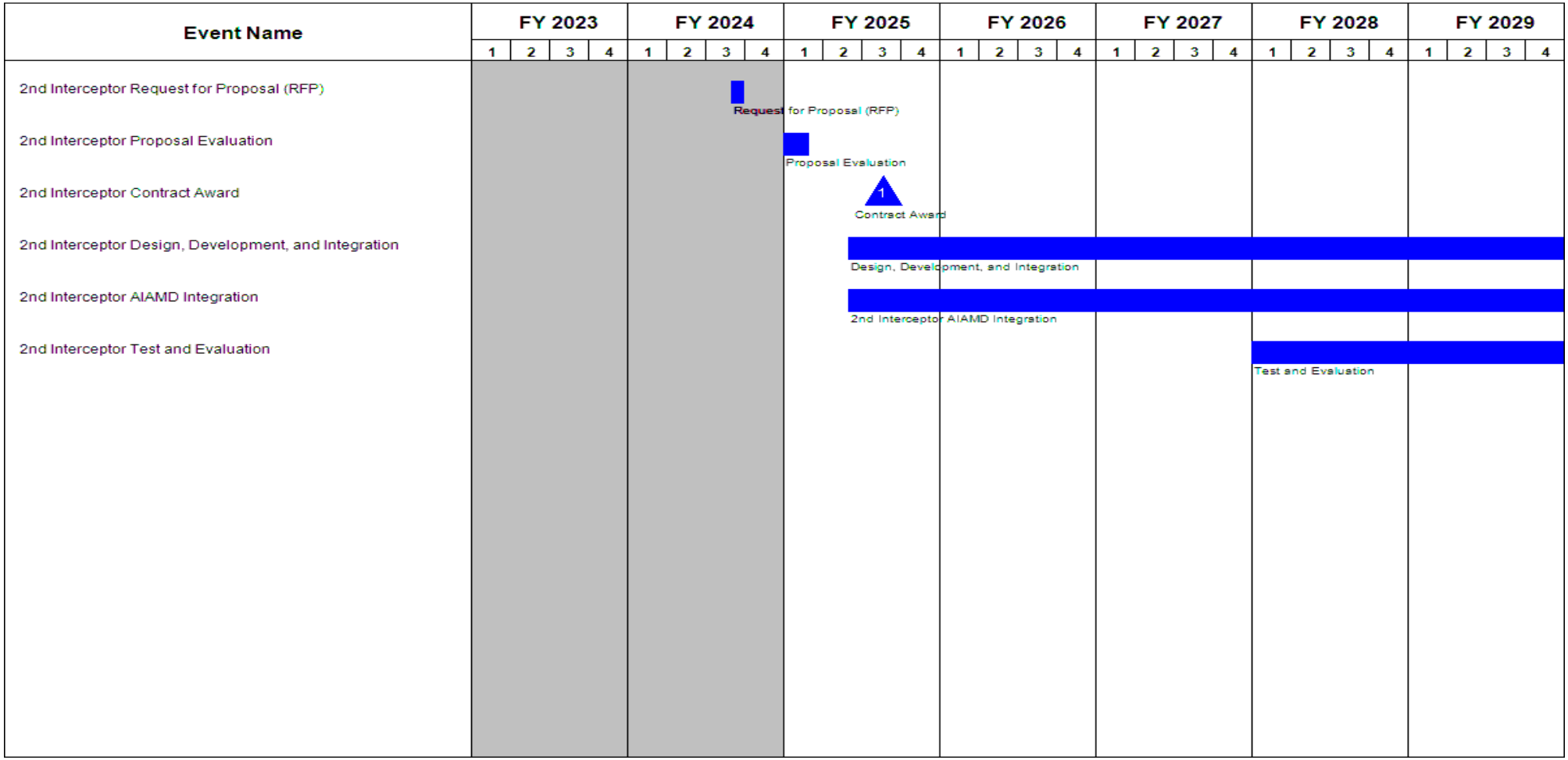

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605052A / *Indirect Fire Protection Capability Inc 2 - Block 1*	**Project (Number/Name)** EY8 / *IFPC Increment 2 - Block 2*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
2nd Interceptor Request for Proposal (RFP)	3	2024	3	2024
2nd Interceptor Proposal Evaluation	1	2025	1	2025
2nd Interceptor Contract Award	3	2025	3	2025
2nd Interceptor Design, Development, and Integration	2	2025	4	2029
2nd Interceptor AIAMD Integration	2	2025	4	2029
2nd Interceptor Test and Evaluation	1	2028	4	2029

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605053A / *Ground Robotics*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	25.131	35.319	28.378	-	28.378	28.104	29.349	24.927	23.232	0.000	194.440
BS9: *Robotic Payloads*	-	7.364	5.071	-	-	-	-	-	-	-	0.000	12.435
FB3: *Robotics Architecture*	-	2.668	2.731	2.735	-	2.735	2.739	2.769	2.800	2.828	0.000	19.270
FB6: *Squad Multipurpose Equipment Transport (SMET)*	-	10.159	19.839	17.253	-	17.253	15.967	16.137	10.306	8.465	0.000	98.126
FG8: *Common Robotic Controller*	-	4.940	7.678	8.390	-	8.390	9.398	10.443	11.821	11.939	0.000	64.609

A. Mission Description and Budget Item Justification

This Program Element supports modernization of the current Ground Robotic fleets by investigating technology insertions including, but not limited to: condition-based maintenance, vetronics, Robotic Architecture, autonomous operations and other emerging technologies. Funding also supports developing initial prototypes to enable refinement of Operational Requirements and early user feedback to support future sustainment and operational movement operating concepts.

A portion of this funding line is a key enabler of the Army Modernization Priorities in support of the Universal Robotic Controller program.

BS9: The Ground Robotics - Robotic Payloads project is a suite of modular capabilities designed with open architecture to provide an increased level of standoff, situational awareness, disruption capability and dexterity to respond to current and emergent Engineer, CBRN and EOD requirements. Current Man Transportable Robotic Systems Increment II (MTRS Inc II) and Common Robotic System - Heavy (CRS-H) system characteristics include the following: a remote controlled articulated arm with a gripper, operating range up to 800 meters, multiple illuminated cameras, a pan/tilt surveillance camera, two-way radio, and a ruggedized operator control unit. This project will support development and testing of the following capabilities: Extended Range Mesh Network (ERMN) and Pan/Tilt Imager (PTI). The use of robotic payloads allows the first approach, to potentially explosive hazards, to be made by a robot rather than a Soldier. These multiple, modular robotic mission payloads will use open architecture to integrate with the MTRS Inc II and CRS-H platforms to form the Army's next generation platform adaptable robotics systems.

There is no FY 2025 request for BS9 / Robotic Payloads.

FB3: Robotic Architecture (RA) provides the engineering and development resources to manage the overarching architecture for robotic systems for both modular and interoperable systems across the Joint Force to facilitate future modernization efforts. It will manage the interoperability standards, modular payload interfaces, common software and common architecture for robotics and autonomous platforms, payloads and universal controllers in support of Human-Machine Integrated Formations (H-MIF). It will also enhance the Common Specifications Reference (CSR) to provide a repository codifying the Army Robotic Autonomous Systems (RAS) standards for open architecture, interoperability interfaces, common control, performance specifications and test results. RA includes the construction of program specific Interoperability Profiles (IOP) (e.g. Small Multipurpose Equipment Transport (S-MET) Inc II, Autonomous Transport Vehicle - System (ATV-S), Assault Breach Vehicle Remote Control System (ABV RCS), Robotics and Autonomy Command and Control (RAC2), Common Robotics System (Individual) (CRS(I)), Enhanced Robotic

Payloads (ERP), Optionally Manned Fighting Vehicle (OMFV), Robotic Combat Vehicle (RCV) variants, Common Tactical Truck (CTT), robotic bridging and construction vehicles, robotic applique kits for manned ground systems) and new standards addressing emerging requirements and Modular Mission Payloads (MMP) including Cyber Security, software safety requirements from MIL-STD-882E, new autonomous behaviors and artificial intelligence, new payloads, lethality, etc. RA underpins the RAS software autonomy architecture strategy by providing the interface standards to allow the compatibility between next generation autonomous ground system software products (i.e., Robotic Technology Kernel, Warfighter Machine Interface, and alternative competing or complimentary innovative industry software products). A key focus of RA will be integrating the RA interfaces with the larger enterprise confluence of Software Foundry, Agile/DevSecOps and software development environments as they are applied to matured product lines such as Robotic Technology Kernel (RTK), Warfighter Machine Interface (WMI) and/or integrated with commercially-developed software.

FY 2025 RDTE Base dollars in the amount of $2.735 million supports the finalization of the Robotics and Autonomous Systems, Ground (RAS-G) Interoperability Profile (IOP) Version 7.0, the initiation of IOP Version 8.0, and the continued maturation of IOP to a single-source model to enable digital engineering. IOP 7.0 will provide the required modular open interfaces and compliance test tools for a multitude of existing and emerging programs. IOP V7 will provide interfaces to support the ground robotic control of advanced H-MIF payloads such as Javelin, tethered unmanned aerial systems, Switch Blade, and counter unmanned aerial systems. The IOP provides the interfaces between autonomy kits and vehicle by-wire kits, as well as the interfaces to Robotic Technology Kernel (RTK) and Warfighter Machine Interface (WMI) and alternative competing or complimentary autonomy packages. Additionally, FY 2025 RDTE funds will iterate, mature and harden Robotic Operating System, Military (ROS-M) software infrastructure, ROS-M instantiation documents and manage the ROS-M registry and repository. FY 2025 RDTE funds will also iteratively mature the Common Specification Reference (CSR) from its minimum viable capability release.

FB6: The Small Multipurpose Equipment Transport (S-MET) system provides small units with a remote-controlled cargo/equipment transport and limited tactical resupply capability, increasing mission capabilities while reducing the individual Soldier load. The S-MET will be capable of carrying 2,500 pounds of equipment currently required to support Infantry and Engineer Platoons in the Infantry Brigade Combat Team (IBCT) for a 72-hour mission without resupply. It is also capable of generating 1-3KW of offload power, with an operational range of 20 miles in silent mode. S-MET will have open architectures, a remote control, support casualty evacuation, and integrate Modular Mission Payloads (MMP) and Technical Insertions. The Army Acquisition Objective (AAO) is 2,819 across S-MET Increment I (Inc I) and S-MET Increment II (Inc II). The Army Procurement Objective (APO) S-MET Inc I quantity is 624 under a Middle Tier of Acquisition Rapid Fielding (MTA-RF). The remaining AAO will be fulfilled through S-MET Inc I/II quantities.

FY 2025 RDTE Base dollars in the amount of $15.918 million funds the continuation of S-MET Inc II development, prototyping, and testing. S-MET Inc II is a follow-on program that will add capability and system maturity in the areas of platform autonomy, increased cyber and electromagnetic interference hardening, ballistic protections against kinetic threats, and improved battery safety for additional transportability modes. Program support to include labor, travel and miscellaneous expenses in support of these RDTE efforts will also be funded.

FY 2025 RDTE Base dollars in the amount of $1.335 million continues to support development, integration and testing of S-MET Modular Mission Payloads (MMP) and Technical Insertions for application onto S-MET platforms.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605053A *I Ground Robotics*

The total cost of the S-MET Inc I Middle Tier of Acquisition Rapid Fielding effort is $160.659 million from FY19 to FY24, including RDT&E ($26.355M) and Procurement ($134.304M). The S-MET Inc I MTA-RF program is fully funded across the Future Years Defense Program.

FG8: Universal Robotics Control (URC) will provide the common information system for all squad and above Robotic and Autonomous Systems (RAS) command and control (C2). The U.S. Army is challenged to transform the Command and Control (C2) warfighting function to execute the RAS strategy in support of Multi-Domain Operations (MDO). The Universal Robotics Control (URC) program responds to this challenge by developing and fielding a system that rapidly synchronizes effects in all domains to defeat the enemy regardless of the mission command network. The URC operates as a distributed information system designed for resilience in a high threat environment utilizing existing and planned RAS elements. URC provides soldier and machine interfaces to establish and maintain positive C2 in all phases of combat and support operations, supported by a continuously developed software ecosystem. The capabilities of a unified information system for RAS C2 at the tactical edge enables improved situational awareness, multi-domain maneuvers, and deployment of lethal and nonlethal effects. URC is a critical enabling capability for NGCV OMFV and RCV programs.

FY 2025 RDTE Base dollars in the amount of $8.390 million will be utilized in the Execution Phase of the Software Acquisition Pathway. This effort will execute the development of the Minimum Viable Product (MVP) and the Minimum Viable Capability Release (MVCR) and Software Acquisition Pathway associated tasks. This phase will include deployment of iterative developed software to the operational environment, conducting value assessments with the user community to mature capability requirements, and provide technical training.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	26.809	35.319	42.549	-	42.549
Current President's Budget	25.131	35.319	28.378	-	28.378
Total Adjustments	-1.678	0.000	-14.171	-	-14.171
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.699	-			
• SBIR/STTR Transfer	-0.979	-			
• Adjustments to Budget Years	-	-	-14.171	-	-14.171

Change Summary Explanation

Funding reduction due to 0605053A - Ground Robotics, Robotic Payloads transitioning to Procurement in FY 2025.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605053A / *Ground Robotics*	Project (Number/Name) BS9 / *Robotic Payloads*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
BS9: *Robotic Payloads*	-	7.364	5.071	-	-	-	-	-	-	-	0.000	12.435
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Ground Robotics - Robotic Payloads project is a suite of modular capabilities designed with open architecture to provide an increased level of standoff, situational awareness, disruption capability and dexterity to respond to current and emergent Engineer, CBRN and EOD requirements. Current Man Transportable Robotic Systems Increment II (MTRS Inc II) and Common Robotic System - Heavy (CRS-H) system characteristics include the following: a remote controlled articulated arm with a gripper, operating range up to 800 meters, multiple illuminated cameras, a pan/tilt surveillance camera, two-way radio, and a ruggedized operator control unit. This project will support development and testing of the following capabilities: Extended Range Mesh Network (ERMN) and Pan/Tilt Imager (PTI). The use of robotic payloads allows the first approach, to potentially explosive hazards, to be made by a robot rather than a Soldier. These multiple, modular robotic mission payloads will use open architecture to integrate with the MTRS Inc II and CRS-H platforms to form the Army's next generation platform adaptable robotics systems.

There is no FY 2025 request for BS9 / Robotic Payloads.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Prototype and Payload Development ***Description:*** Development of Extended Range Mesh Network (ERMN), Pan/Tilt Imager (PTI) and payload prototypes and payload to platform integration requirements.	2.530	-	-
Title: Integration & Software Development (Platform) ***Description:*** Development of integration provisions for mounting the ERMN, PTI to both the MTRS Inc II and CRS-H platforms. Development of the necessary software updates to allow for payload to platform communications.	3.061	-	-
Title: ERMN and PTI Prototypes ***Description:*** Purchase of the ERMN & PTI payloads ***FY 2024 Plans:*** FY 2024 funds to be used to update and retrofit payloads from test. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease to $0 in FY 2025 attributed to the developmental efforts completing and production start in FY 2025.	-	0.350	-
Title: Testing and Evaluation ***Description:*** Testing, evaluation and log analysis of the ERMN, PTI payloads on to the host platforms CRS-H and MTRS Inc II	0.174	3.796	-

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** BS9 / *Robotic Payloads*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: FY 2024 funding supports testing and training of the vendor prototypes to the performance specifications requirements and safety requirements. FY 2024 funding will also fund soldier test point, and product qualification testing. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease to $0 in FY 2025 attributed to the developmental efforts completing and production start in FY 2025.			
Title: Program Support ***Description:*** Program support for Enhanced Robotic Payload program ***FY 2024 Plans:*** FY 2024 funds to support ERP program during integration, development and test of payloads on to host platforms, and achieve Milestone C. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease to $0 in FY 2025 attributed to the developmental efforts completing and production start in FY 2025.	1.336	0.925	-
Title: Test Assets	0.263	-	-
Accomplishments/Planned Programs Subtotals	7.364	5.071	-

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• R06305: *Enhanced Robotics Payloads SKO*	-	-	15.557	-	15.557	15.884	11.900	-	-	0.000	43.341

Remarks

D. Acquisition Strategy

PdM Robotic and Autonomous Systems (RAS) developed a Performance Specification (PSPEC) from the Enhanced Robotic Payloads-Unmanned Ground Systems (ERP-UGS) Capability Development Document (CDD). PdM RAS released a request for proposal from industry on capabilities to meet the PSPEC which resulted in the selection of the best capability to be further developed, integrated into the host platforms, and tested as a system in an Abbreviated Engineering Manufacturing Development (EMD) phase. After a successful EMD, a production decision will be made to enter Production and Deployment (PD) phase.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605053A / *Ground Robotics*	Project (Number/Name) BS9 / *Robotic Payloads*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Support	MIPR	DETROIT ACC and TACOM ILSC : Warren, MI	0.912	1.336	Oct 2022	0.925	Oct 2023	-		-		-	0.000	3.173	-
		Subtotal	0.912	1.336		0.925		-		-		-	0.000	3.173	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prototype and Payload Development ERMN & PTI	SS/CPFF	FLIR : Boston, MA	4.367	2.530	Feb 2023	-		-		-		-	0.000	6.897	-
Integration & Software Development ERMN & PTI	SS/CPFF	FLIR : Boston, Ma	2.941	3.061	Feb 2023	-		-		-		-	0.000	6.002	-
ERMN & PTI Prototypes	SS/CPFF	FLIR : Boston, Ma	-	-		0.350	Jul 2024	-		-		-	0.000	0.350	-
Test Assets (CRS-H and MTRS)	SS/TBD	FLIR : Boston, MA	-	0.263	Aug 2023	-		-		-		-	0.000	0.263	-
		Subtotal	7.308	5.854		0.350		-		-		-	0.000	13.512	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Test ERMN & PTI	MIPR	ATEC : ABERDEEN, MD	-	0.174		1.000	May 2024	-		-		-	0.000	1.174	-
Logistics Product Development	MIPR	TACOM- ILSC : WARREN, MI	-	-		1.596	Mar 2024	-		-		-	0.000	1.596	-
Soldier Touch Point	TBD	TBD : TBD	-	-		0.200	May 2024	-		-		-	0.000	0.200	-
Production Qualification Test (ERMN & PTI) Plan and Conduct	MIPR	ATEC : ABERDEEN, MD	-	-		1.000	Sep 2024	-		-		-	0.000	1.000	-
		Subtotal	-	0.174		3.796		-		-		-	0.000	3.970	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605053A / *Ground Robotics*	Project (Number/Name) BS9 / *Robotic Payloads*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	8.220	7.364		5.071		-		-		-	0.000	20.655	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** BS9 / *Robotic Payloads*

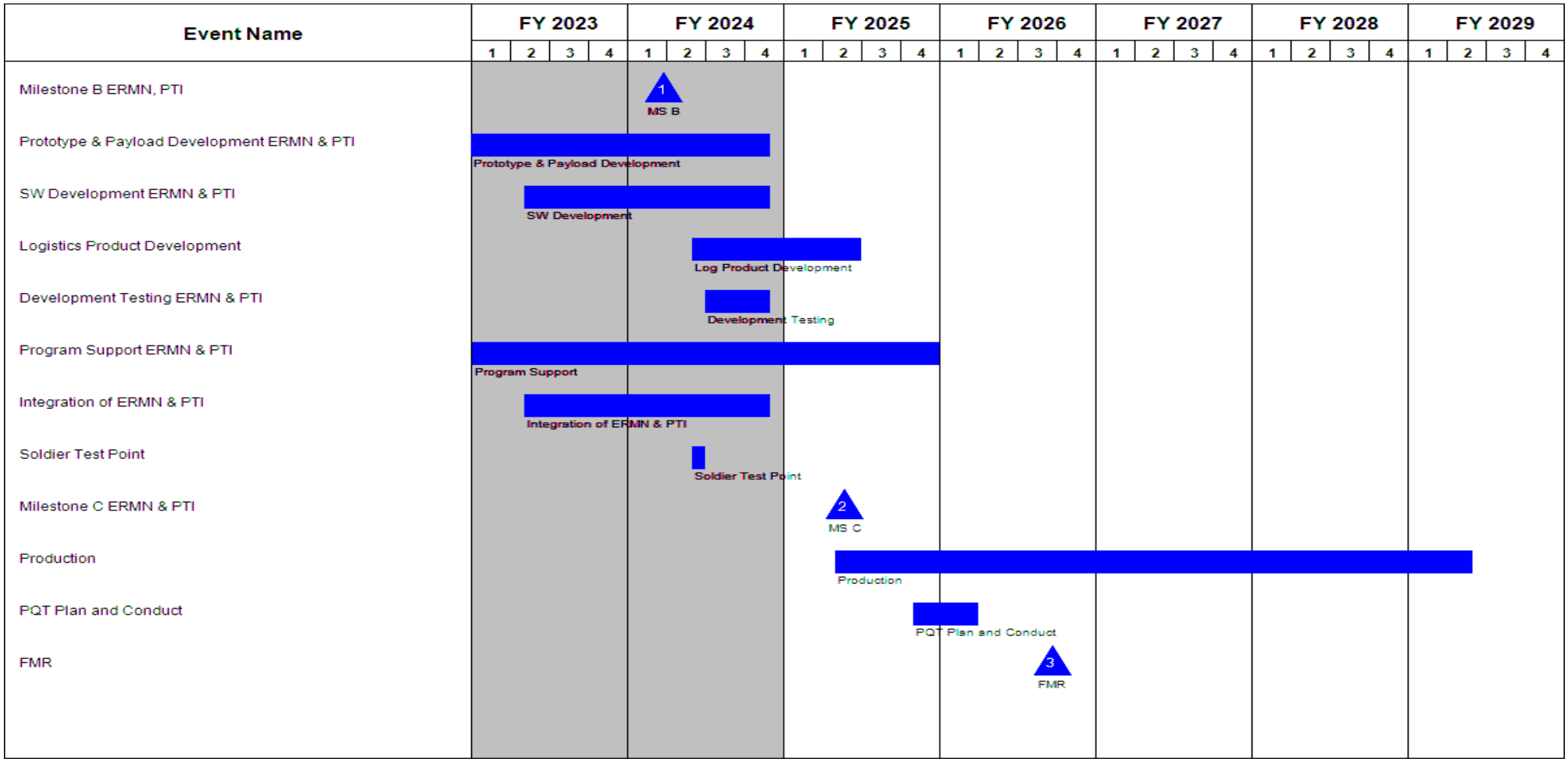

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** BS9 / *Robotic Payloads*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Milestone B ERMN, PTI	1	2024	1	2024
Prototype & Payload Development ERMN & PTI	4	2022	4	2024
SW Development ERMN & PTI	2	2023	4	2024
Logistics Product Development	2	2024	2	2025
Development Testing ERMN & PTI	3	2024	4	2024
Program Support ERMN & PTI	1	2022	4	2025
Integration of ERMN & PTI	2	2023	4	2024
Soldier Test Point	2	2024	2	2024
Milestone C ERMN & PTI	2	2025	2	2025
Production	2	2025	2	2029
PQT Plan and Conduct	4	2025	1	2026
FMR	3	2026	3	2026

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605053A / *Ground Robotics*	Project (Number/Name) FB3 / *Robotics Architecture*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FB3: *Robotics Architecture*	-	2.668	2.731	2.735	-	2.735	2.739	2.769	2.800	2.828	0.000	19.270
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Robotic Architecture (RA) provides the engineering and development resources to manage the overarching architecture for robotic systems for both modular and interoperable systems across the Joint Force to facilitate future modernization efforts. It will manage the interoperability standards, modular payload interfaces, common software and common architecture for robotics and autonomous platforms, payloads and universal controllers in support of Human-Machine Integrated Formations (H-MIF). It will also enhance the Common Specifications Reference (CSR) to provide a repository codifying the Army Robotic Autonomous Systems (RAS) standards for open architecture, interoperability interfaces, common control, performance specifications and test results. RA includes the construction of program specific Interoperability Profiles (IOP) (e.g. Small Multipurpose Equipment Transport (S-MET) Inc II, Autonomous Transport Vehicle - System (ATV-S), Assault Breach Vehicle Remote Control System (ABV RCS), Robotics and Autonomy Command and Control (RAC2), Common Robotics System (Individual) (CRS(I)), Enhanced Robotic Payloads (ERP), Optionally Manned Fighting Vehicle (OMFV), Robotic Combat Vehicle (RCV) variants, Common Tactical Truck (CTT), robotic bridging and construction vehicles, robotic applique kits for manned ground systems) and new standards addressing emerging requirements and Modular Mission Payloads (MMP) including Cyber Security, software safety requirements from MIL-STD-882E, new autonomous behaviors and artificial intelligence, new payloads, lethality, etc. RA underpins the RAS software autonomy architecture strategy by providing the interface standards to allow the compatibility between next generation autonomous ground system software products (i.e., Robotic Technology Kernel, Warfighter Machine Interface, and alternative competing or complimentary innovative industry software products). A key focus of RA will be integrating the RA interfaces with the larger enterprise confluence of Software Foundry, Agile/DevSecOps and software development environments as they are applied to matured product lines such as Robotic Technology Kernel (RTK), Warfighter Machine Interface (WMI) and/or integrated with commercially-developed software.

FY 2025 Base dollars in the amount of $2.735 million supports the finalization of the Robotics and Autonomous Systems, Ground (RAS-G) Interoperability Profile (IOP) Version 7.0, the initiation of IOP Version 8.0, and the continued maturation of IOP to a single-source model to enable digital engineering. IOP 7.0 will provide the required modular open interfaces and compliance test tools for a multitude of existing and emerging programs. IOP V7 will provide interfaces to support the ground robotic control of advanced H-MIF payloads such as Javelin, tethered unmanned aerial systems, Switch Blade, and counter unmanned aerial systems. The IOP provides the interfaces between autonomy kits and vehicle by-wire kits, as well as the interfaces to Robotic Technology Kernel (RTK) and Warfighter Machine Interface (WMI) and alternative competing or complimentary autonomy packages. Additionally, FY 2025 RDTE funds will iterate, mature and harden Robotic Operating System, Military (ROS-M) software infrastructure, ROS-M instantiation documents and manage the ROS-M registry and repository. FY 2025 RDTE funds will also iteratively mature the Common Specification Reference (CSR) from its minimum viable capability release.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Robotics Architecture	2.668	2.731	2.735
Description: Provide architecture tools and support for current Programs of Record (PoR) & new requirements to allow for interoperability within the Joint community for Robotics & Autonomous Systems.			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB3 / *Robotics Architecture*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: FY 2024 RDTE funds in the amount of $2.731 million supports the post-finalization of the Robotics and Autonomous Systems, Ground (RAS-G) Interoperability Profile (IOP) Version 6. IOP V6.0 and initiation of IOP V7.0 and will provide the required modular open interfaces and compliance test tools for new programs including Small Mobile Equipment Transport (S-MET) Increment II & Modular Mission Payloads (MMPs), Autonomous Tactical Vehicle-System (ATV-S), Optionally Manned Fighting Vehicle (OMFV), Robotic Combat Vehicle (RCV), Enhanced Robotics Payloads (ERP), Assault Breacher Vehicle Remote Control System (ABV RCS), Robotics Architecture Command & Control (RAC2), Common Tactical Truck (CTT) and robotic applique kits for manned ground systems. Additionally, FY 2024 RDTE funds will continue the development, iteration & hardening of Robotic Operating System, Military (ROS-M) software modules and ROS-M instantiation documents, and management of ROS-M registry & repository infrastructure. FY 2024 RDTE funds will also move the Common Specification Reference (CSR) from minimum viable product to minimum viable capability release. ***FY 2025 Plans:*** FY 2025 RDTE supports the finalization of the Robotics and Autonomous Systems, Ground (RAS-G) Interoperability Profile (IOP) Version 7.0, the initiation of IOP Version 8.0, and the continued maturation of IOP to a single-source model to enable digital engineering. FY 2025 RDTE funds will continue the development, iteration & hardening of Robotic Operating System, Military (ROS-M) software modules and ROS-M instantiation documents, and management of ROS-M registry & repository infrastructure. FY 2025 RDTE funds will also iteratively mature the Common Specification Reference (CSR) from its minimum viable capability release. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 is slightly higher than FY2024 due to a increased requirement to support Architecture Products for Autonomous Systems efforts.			
Accomplishments/Planned Programs Subtotals	2.668	2.731	2.735

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The Robotics Architecture line develops IOP, ROS-M, and CSR tools and supporting infrastructure. It leverages intellectual capital and products which allow for Joint interoperability and helps meet Army Program of Record cost and schedule while delivering high quality products for fielding. The architecture and tools developed under this line provide enterprise-wide efficiencies and are central to the Army's acquisition philosophy of a modular open system approach between the major subsystems of robotics and autonomous systems, as described throughout the Army approved Robotics & Autonomous Systems (RAS) Initial Capabilities Document (ICD), as well as its update to support artificial intelligence.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605053A / *Ground Robotics*	Project (Number/Name) FB3 / *Robotics Architecture*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	MIPR	Various : Multiple	2.051	0.952	Dec 2022	0.161	Jan 2024	0.165	Jan 2025	-		0.165	0.000	3.329	-
		Subtotal	2.051	0.952		0.161		0.165		-		0.165	0.000	3.329	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IOP Version Development	SS/CPFF	Various / DCS Corp : Warren, MI	2.713	1.000	Mar 2023	0.370	Nov 2023	0.370	Nov 2024	-		0.370	0.000	4.453	-
IOP Version Completion & Release	MIPR	GVSC : Warren, MI	-	-		0.500	Nov 2023	0.500	Nov 2024	-		0.500	0.000	1.000	-
Conformance Verification Testing (CVT) Updates	MIPR	GVSC : Warren, MI	0.516	-		0.600	Nov 2023	0.500	Nov 2024	-		0.500	0.000	1.616	-
DCS / Neya Systems for Common Specification Reference (CSR) development	C/CPFF	DCS / Neya Systems : Various	1.002	0.300	Mar 2023	0.300	Mar 2024	0.300	Mar 2025	-		0.300	0.000	1.902	-
Model based Systems Engineering IOP	MIPR	GVSC : Warren, MI	-	-		0.200	Nov 2023	0.100	Nov 2024	-		0.100	0.000	0.300	-
Architecture Products for Autonomous Systems	SS/CPFF	DCS Corp : Alexandria, VA	-	0.275	Apr 2023	-		0.200	Mar 2025	-		0.200	0.000	0.475	-
Robotic Operating System - Military (ROS-M)	Various	Various : Multiple	2.270	0.141	May 2023	0.600	Mar 2024	0.600	Mar 2025	-		0.600	0.000	3.611	-
		Subtotal	6.501	1.716		2.570		2.570		-		2.570	0.000	13.357	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	8.552	2.668		2.731		2.735		-		2.735	0.000	16.686	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB3 / *Robotics Architecture*

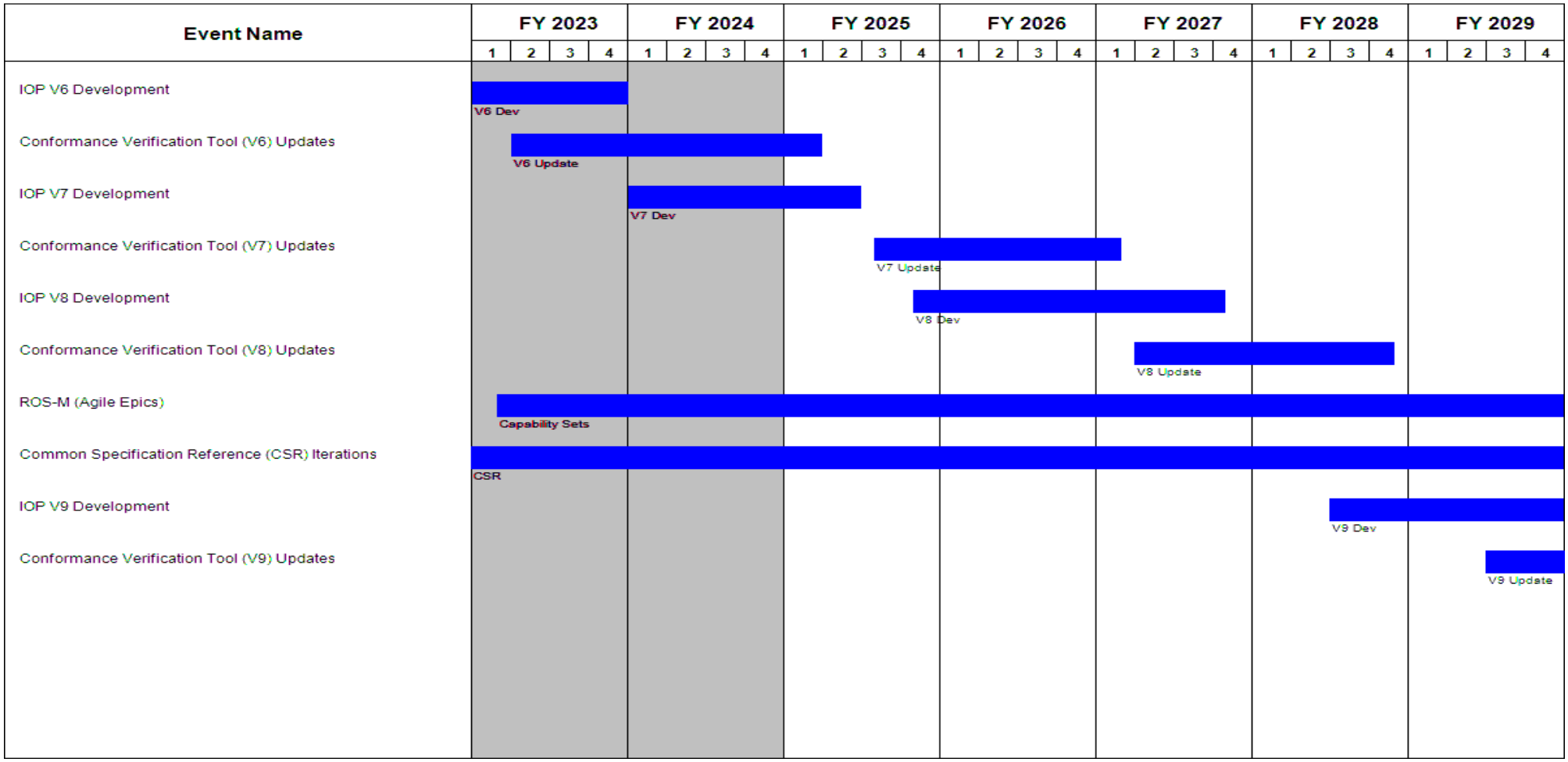

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB3 / *Robotics Architecture*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
IOP V4 Capability Plan (CP) Development	1	2018	2	2018
IOP V4 WIPT Kickoff	3	2018	3	2018
IOP V4 WG Development	3	2018	3	2019
Conformance Verification Testing (CVT) V3 Update release to industry	1	2018	4	2018
Instantiation tool development	2	2018	4	2018
Conformance Verification Testing (CVT) V4 Development	1	2019	4	2019
Conformance Verification Tool (CVT) V4 Update release to industry	1	2020	1	2021
IOP V5 Capability Plan (CP) Development	1	2020	2	2020
IOP V5 WIPT Kickoff	3	2020	3	2020
IOP V5 WG Development	3	2020	3	2021
IOP V5 Best Artifacts Stress Testing	1	2021	3	2021
Conformance Verification Tool (V5) Development	2	2021	2	2022
IOP V6 Development	1	2022	4	2023
Conformance Verification Tool (V6) Updates	2	2023	1	2025
IOP V7 Development	1	2024	2	2025
Conformance Verification Tool (V7) Updates	3	2025	1	2027
IOP V8 Development	4	2025	4	2027
Conformance Verification Tool (V8) Updates	2	2027	4	2028
ROS-M Module SRR	3	2020	3	2020
ROS-M Module PDR	4	2020	4	2020
ROS-M Module CDR	1	2021	1	2021
ROS-M Module Build	1	2021	2	2021
ROS-M Module Stress Testing & Hardening	4	2020	2	2021

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB3 / *Robotics Architecture*

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
ROS-M Module Registry & Repository software Drop	2	2021	2	2021
ROS-M (Agile Epics)	1	2022	4	2029
Common Specification Reference (CSR) Iterations	3	2022	4	2029
IOP V9 Development	3	2028	4	2029
Conformance Verification Tool (V9) Updates	3	2029	4	2030

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605053A / *Ground Robotics*	Project (Number/Name) FB6 / *Squad Multipurpose Equipment Transport (SMET)*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FB6: *Squad Multipurpose Equipment Transport (SMET)*	-	10.159	19.839	17.253	-	17.253	15.967	16.137	10.306	8.465	0.000	98.126
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Small Multipurpose Equipment Transport (S-MET) system provides small units with a remote-controlled cargo/equipment transport and limited tactical resupply capability, increasing mission capabilities while reducing the individual Soldier load. The S-MET will be capable of carrying 2,500 pounds of equipment currently required to support Infantry and Engineer Platoons in the Infantry Brigade Combat Team (IBCT) for a 72-hour mission without resupply. It is also capable of generating 1-3KW of offload power, with an operational range of 20 miles in silent mode. S-MET will have open architectures, a remote control, support casualty evacuation, and integrate Modular Mission Payloads (MMP) and Technical Insertions. The Army Acquisition Objective (AAO) is 2,819 across S-MET Increment I (Inc I) and S-MET Increment II (Inc II). The Army Procurement Objective (APO) S-MET Inc I quantity is 624 under a Middle Tier of Acquisition Rapid Fielding (MTA-RF). The remaining AAO will be fulfilled through S-MET Inc I/II quantities.

FY 2025 RDTE Base dollars in the amount of $15.918 million funds the continuation of S-MET Inc II development, prototyping, and testing. S-MET Inc II is a follow-on program that will add capability and system maturity in the areas of platform autonomy, increased cyber and electromagnetic interference hardening, ballistic protections against kinetic threats, and improved battery safety for additional transportability modes. Program support to include labor, travel and miscellaneous expenses in support of these RDTE efforts will also be funded.

FY 2025 RDTE Base dollars in the amount of $1.335 million continues to support development, integration and testing of S-MET Modular Mission Payloads (MMP) and Technical Insertions for application onto S-MET platforms.

The total cost of the S-MET Inc I Middle Tier of Acquisition Rapid Fielding effort is $160.659 million from FY19 to FY24, including RDT&E ($26.355M) and Procurement ($134.304M). The S-MET Inc I MTA-RF program is fully funded across the Future Years Defense Program.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: S-MET	6.700	4.227	-
Description: Small Multipurpose Equipment Transport (S-MET) Increment I			
FY 2024 Plans: FY 2024 RDTE Base dollars in the amount of $4.227 million continues to support the development, integration, and testing of Increment I Technical Insertions, Engineering Change Proposals, and Modular Mission Payloads (MMP) to increase mission capabilities and address requirements in the Abbreviated Capability Development Document (A-CDD). FY 2024 RDTE funds will			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB6 / *Squad Multipurpose Equipment Transport (SMET)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
also continue to fund testing and development of logistics material required to support MMP efforts. Program support to include labor, travel and miscellaneous expenses in support of these RDTE efforts will also be funded. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2024 to FY 2025 budget decreases related to ramp up efforts to support S-MET Increment II.			
Title: S-MET Inc II ***Description:*** Small Multipurpose Equipment Transport (S-MET) Increment II ***FY 2024 Plans:*** FY 2024 RDTE Base dollars in the amount of $15.612 million funds S-MET Increment II development, prototyping, test initiation, and performance and safety testing. ***FY 2025 Plans:*** FY 2025 RDTE Base dollars support the continuation of S-MET Increment II development, prototyping, and testing (performance and safety). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2024 to FY 2025 budget increases related to ramp up efforts to support S-MET Increment II.	3.459	15.612	15.918
Title: S-MET MMPs / Technical Insertions ***Description:*** Small Multipurpose Equipment Transport (S-MET) Modular Mission Payloads (MMP) and Technical Insertions ***FY 2025 Plans:*** FY 2025 RDTE supports development, integration, testing of S-MET MMPs and Technical Insertions for future application to the S-MET platform. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Effort broken out separately for improved visibility in FY 2025. MMPs and Technical Insertions constitute ongoing planned efforts from prior years.	-	-	1.335
Accomplishments/Planned Programs Subtotals	10.159	19.839	17.253

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• R12154: *Squad Multipurpose Equipment Transport (SMET)*	29.709	45.890	24.334	-	24.334	28.506	61.605	61.639	64.197	0.000	315.880

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB6 / *Squad Multipurpose Equipment Transport (SMET)*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost

Remarks

D. Acquisition Strategy

Small Multipurpose Equipment Transport (S-MET) Increment II will conduct a paper evaluation leading to a down selection to one or two Other Transactional Authority (OTA) vendor(s) under a Major Capability Acquisition (MCA) pathway. The Engineering Manufacturing & Development (EMD) phase will include the delivery of prototype systems, safety and performance testing, reliability, availability, and maintainability testing, and further development and integration of Modular Mission Payloads (MMP). Upon EMD completion, the government will competitively down select to one contractor for production.

It is the Army's intent to maximize the use of an Open Systems Architecture (OSA), as well as the approved Unmanned Ground Vehicle (UGV) interoperability profiles (IOP) for Small Multipurpose Equipment Transport (S-MET). Data collected up through development testing and the production effort will be utilized to provide cost savings for future Technical Insertions and Modular Mission Payloads (MMP) on to the S-MET program. Throughout the life of the program, the Army will continue to survey the marketplace opportunities for technology insertions and required Modular Mission Payloads (MMP), relying on competition to drive down costs.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605053A / *Ground Robotics*	Project (Number/Name) FB6 / *Squad Multipurpose Equipment Transport (SMET)*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Costs	MIPR	PM FP : Warren, MI	7.348	1.661	Oct 2022	1.591	Oct 2023	-		-		-	0.000	10.600	-
Increment II Program Management Costs	MIPR	PM FP : Warren, MI	-	0.672	Oct 2022	3.481	Oct 2023	2.459	Oct 2024	-		2.459	0.000	6.612	-
		Subtotal	7.348	2.333		5.072		2.459		-		2.459	0.000	17.212	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Increment I Prototypes	SS/FFP	General Dynamics Land Systems : Sterling Heights, MI	-	1.122	Mar 2023	-		-		-		-	0.000	1.122	-
Increment II SSEB	MIPR	PM FP : Warren, MI	-	1.248	Jan 2024	-		-		-		-	0.000	1.248	-
Increment II Development and Prototyping	C/FFP	Year Long Excursion : TBD	-	1.539	Jan 2024	10.546	Jan 2024	10.289	Jan 2025	-		10.289	0.000	22.374	-
Modular Mission Payloads (MMP)	MIPR	TBD : TBD	2.375	2.407	Jan 2023	0.500	Jan 2024	0.700	Jan 2025	-		0.700	0.000	5.982	-
Technical Insertions	MIPR	TBD : TBD	4.449	0.727	Feb 2023	1.116	Feb 2024	0.635	Jan 2025	-		0.635	0.000	6.927	-
		Subtotal	6.824	7.043		12.162		11.624		-		11.624	0.000	37.653	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Increment I ATEC Test Support	MIPR	Army Test Engineering Center : Various	6.780	0.783	Nov 2022	1.020	Nov 2023	-		-		-	0.000	8.583	-
Increment II ATEC Test Support	MIPR	Army Test Engineering Center : Various	-	-		1.585	Jun 2024	3.170	Feb 2025	-		3.170	0.000	4.755	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB6 / *Squad Multipurpose Equipment Transport (SMET)*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	6.780	0.783		2.605		3.170		-		3.170	0.000	13.338	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	20.952	10.159		19.839		17.253		-		17.253	0.000	68.203	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB6 / *Squad Multipurpose Equipment Transport (SMET)*

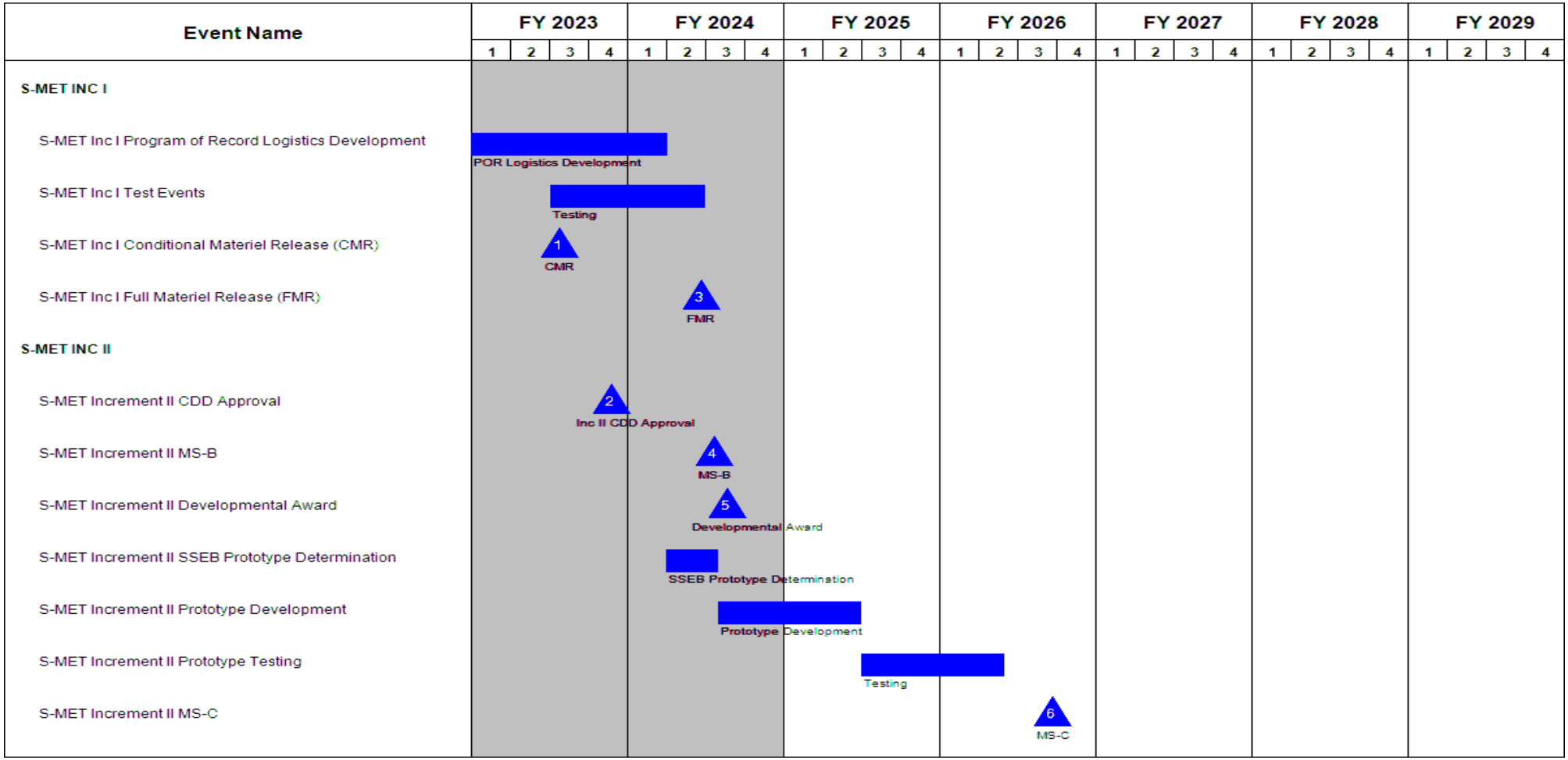

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB6 / *Squad Multipurpose Equipment Transport (SMET)*

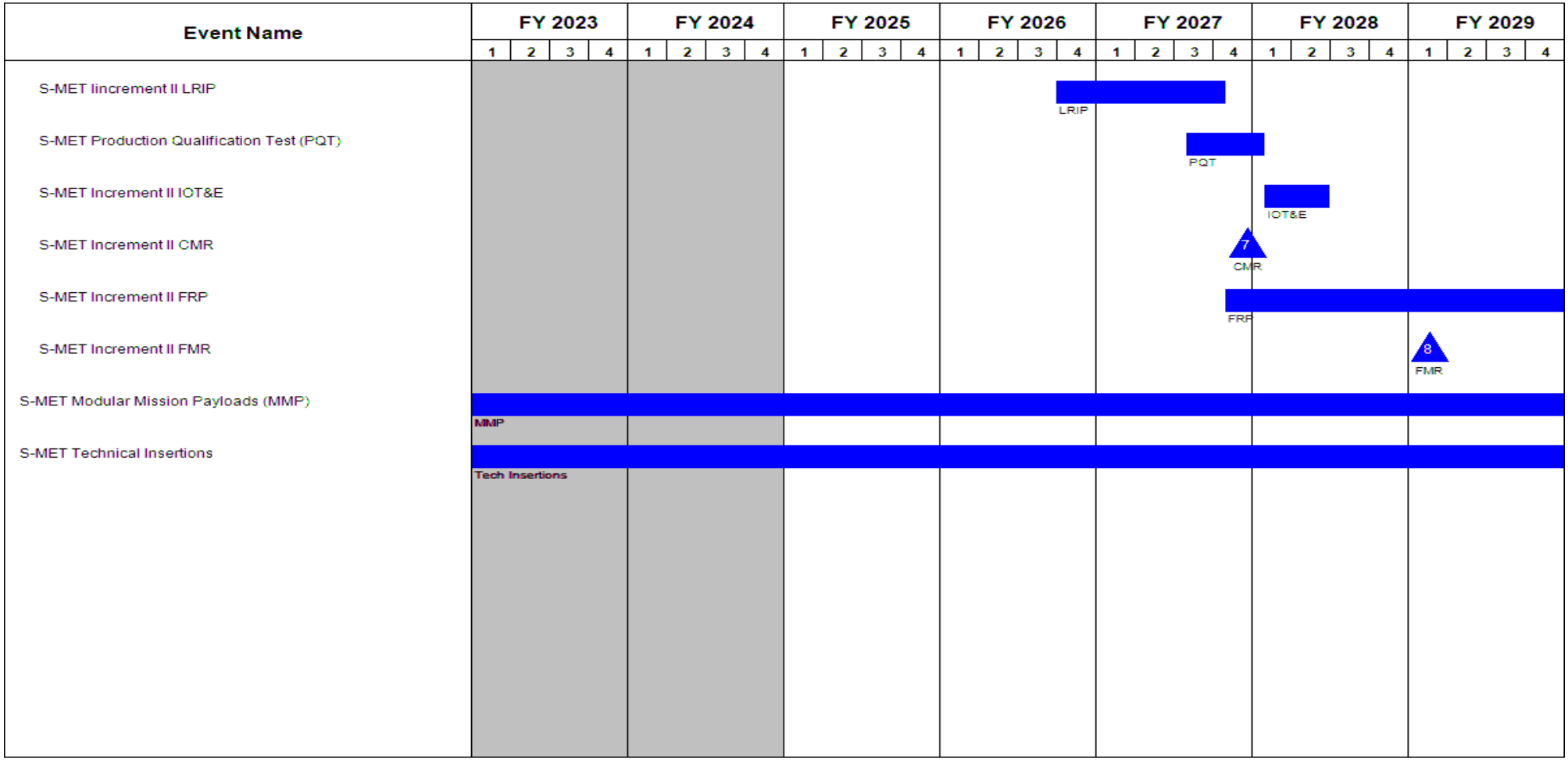

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB6 / *Squad Multipurpose Equipment Transport (SMET)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
S-MET INC I	1	2018	4	2024
S-MET In I DT / OT	4	2018	4	2021
S-MET Technology Demo	1	2019	3	2019
S-MET MMP Assessment	3	2019	3	2019
S-MET 804 MTA Approval	4	2019	4	2019
S-MET Production Award	4	2020	4	2020
S-MET Inc I Program of Record Logistics Development	4	2020	1	2024
S-MET Inc I Test Events	3	2023	2	2024
S-MET Inc I Conditional Materiel Release (CMR)	3	2023	3	2023
S-MET Inc I Full Materiel Release (FMR)	2	2024	2	2024
S-MET INC II	1	2024	4	2029
S-MET Increment II CDD Approval	4	2023	4	2023
S-MET Increment II MS-B	3	2024	3	2024
S-MET Increment II Developmental Award	3	2024	3	2024
S-MET Increment II SSEB Prototype Determination	2	2024	3	2024
S-MET Increment II Prototype Development	3	2024	2	2025
S-MET Increment II Prototype Testing	3	2025	2	2026
S-MET Increment II MS-C	3	2026	3	2026
S-MET Iincrement II LRIP	4	2026	4	2027
S-MET Production Qualification Test (PQT)	3	2027	1	2028
S-MET Increment II IOT&E	1	2028	2	2028
S-MET Increment II CMR	4	2027	4	2027

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FB6 / *Squad Multipurpose Equipment Transport (SMET)*

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
S-MET Increment II FRP	4	2027	4	2029
S-MET Increment II FMR	1	2029	1	2029
S-MET Modular Mission Payloads (MMP)	1	2023	4	2029
S-MET Technical Insertions	1	2023	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605053A / *Ground Robotics*	Project (Number/Name) FG8 / *Common Robotic Controller*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FG8: *Common Robotic Controller*	-	4.940	7.678	8.390	-	8.390	9.398	10.443	11.821	11.939	0.000	64.609
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Robotic and Autonomous Command and Control effort (RAC2) (formerly Universal Robotic Control (URC)) is a software only program that is a critical capability for ground robotic vehicles: the Next Generation Combat Vehicle (NGCV), Optionally Manned Fighting Vehicle (OMFV), Robotic Combat Vehicle (RCV), and uncrewed aircraft systems: Short-Range Reconnaissance (SRR), and Long-Range Reconnaissance (LRR). RAC2 will provide the common information system for all Brigade and below Robotic and Autonomous Systems (RAS) Command and Control (C2). The RAC2 program meets the challenge of providing the C2 warfighting function to execute the US Army RAS Strategy in support of Multi-Domain Operations (MDO). RAC2 provides soldier and machine interfaces to establish and maintain positive C2 in all phases of combat and support operations, supported by a continuously developed software ecosystem. The capabilities of RAC2 provide a unified information system at the tactical edge enabling improved situational awareness and multi-domain maneuver.

FY 2025 RDTE Base dollars in the amount of $8.390 million will be utilized in the Execution Phase of the Software Acquisition Pathway. This effort will execute the development of the Minimum Viable Product (MVP) and the Minimum Viable Capability Release (MVCR) and Software Acquisition Pathway associated tasks. This phase will include deployment of iterative developed software to the operational environment, conducting value assessments with the user community to mature capability requirements, and providing technical training.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: RAC2 improves Soldier situational awareness while reducing cognitive load on Soldiers and the robotics portfolio logistics footprint	4.940	7.678	8.390
Description: The Robotic and Autonomous Command and Control (RAC2) information system improves situational awareness, multi-domain maneuvers, and deployment of lethal and nonlethal effects utilizing the entire Robotics and Autonomous Systems (RAS) portfolio.			
FY 2024 Plans: FY 2024 RDTE funding in the amount of $7.678 million will be utilized for System Engineering and Program Management (SEPM), Software Engineering Development and Licensing to support the execution phase of the Software Acquisition Pathway. This effort will execute the development of the Minimum Viable Product (MVP) and Minimum Viable Capability Release (MVCR) and Software Acquisition Pathway associated tasks. This Phase will include deployment of iterative developed software to the operational environment, conducting value assessments with user community to mature capability requirements, and provide technical training.			
FY 2025 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FG8 / *Common Robotic Controller*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 RDTE will be utilized in the Execution Phase of the Software Acquisition Pathway. This effort will execute the development of the Minimum Viable Product (MVP) and the Minimum Viable Capability Release (MVCR) and Software Acquisition Pathway associated tasks. This phase will include deployment of iterative developed software to the operational environment, conducting value assessments with user community to mature capability requirements, and provide technical training. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2024 to 2025 budget increase is on-boarding new platforms for software development.			
Accomplishments/Planned Programs Subtotals	4.940	7.678	8.390

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The RAC2 is in the planning phase of the Software Acquisition Pathway per Acquisition Decision Memorandum (ADM) signed 26 April 2022.

Robotic and Autonomous Command and Control (RAC2) Software Capabilities Need Statement (CNS) dated 31 March 2022 was approved by the Robotic Requirements Division (RRD) Maneuver-Capabilities Development Integration Directorate (M-CDID).

The RAC2 CNS defines critical capabilities for Battalion (BN) and below Robotic and Autonomous Systems (RAS) Command and Control (C2) software (SW) that enable the operational RAS System of Systems (SoS). The procedures, infrastructure, developmental environment, and capabilities developed for RAC2 will provide the basis for future RAS C2 SW development as well as integration into legacy and future air/ground platforms.

Project Manager Uncrewed Aircraft Systems (PM-UAS), as the materiel developer, will coordinate the Army's combined efforts for the development of RAS C2. The RRD will serve as the lead capability developer for RAC2. This partnership will prioritize development of detailed user needs and will integrate these needs into the system's capabilities. PM UAS will also provide annual RAC2 CNS user updates, in partnership with RRD, and in-line with the jointly developed User Agreement (UA).

PM UAS will develop and maintain a product roadmap and product backlog for each of the main capabilities based on the RAC2 UA. PM UAS will seek to gain user feedback through a series of virtual/simulated or live/field test events. PM UAS will utilize user feedback from these events to inform prioritization for the product roadmaps and backlogs for each capability.

PM UAS will implement software for each capability, which builds on Modular Open Systems Approach (MOSA) principles and in accordance with Inter-Operability Protocols (IOPs).

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605053A / *Ground Robotics*	Project (Number/Name) FG8 / *Common Robotic Controller*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management support	C/TBD	Various : Multiple	3.984	2.748	Nov 2022	2.241	Jan 2024	0.839	Jan 2025	-		0.839	0.000	9.812	-
SBIR/STTR	TBD	TBD : TBD	-	-		-		0.000	Dec 2024	-		0.000	-	-	-
		Subtotal	3.984	2.748		2.241		0.839		-		0.839	0.000	9.812	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Manufacturing & Development	C/CPFF	TBD : TBD	0.517	-		3.542	Jan 2024	4.791	Jan 2025	-		4.791	0.000	8.850	-
Software support	Various	Various : Various	1.284	-		1.895	Jan 2024	1.017	Jan 2025	-		1.017	0.000	4.196	-
Risk Reduction/ Engineering Studies	TBD	TBS : TBD	0.730	2.192	Feb 2023	-		1.743	Jul 2025	-		1.743	0.000	4.665	-
		Subtotal	2.531	2.192		5.437		7.551		-		7.551	0.000	17.711	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	6.515	4.940		7.678		8.390		-		8.390	0.000	27.523	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FG8 / *Common Robotic Controller*

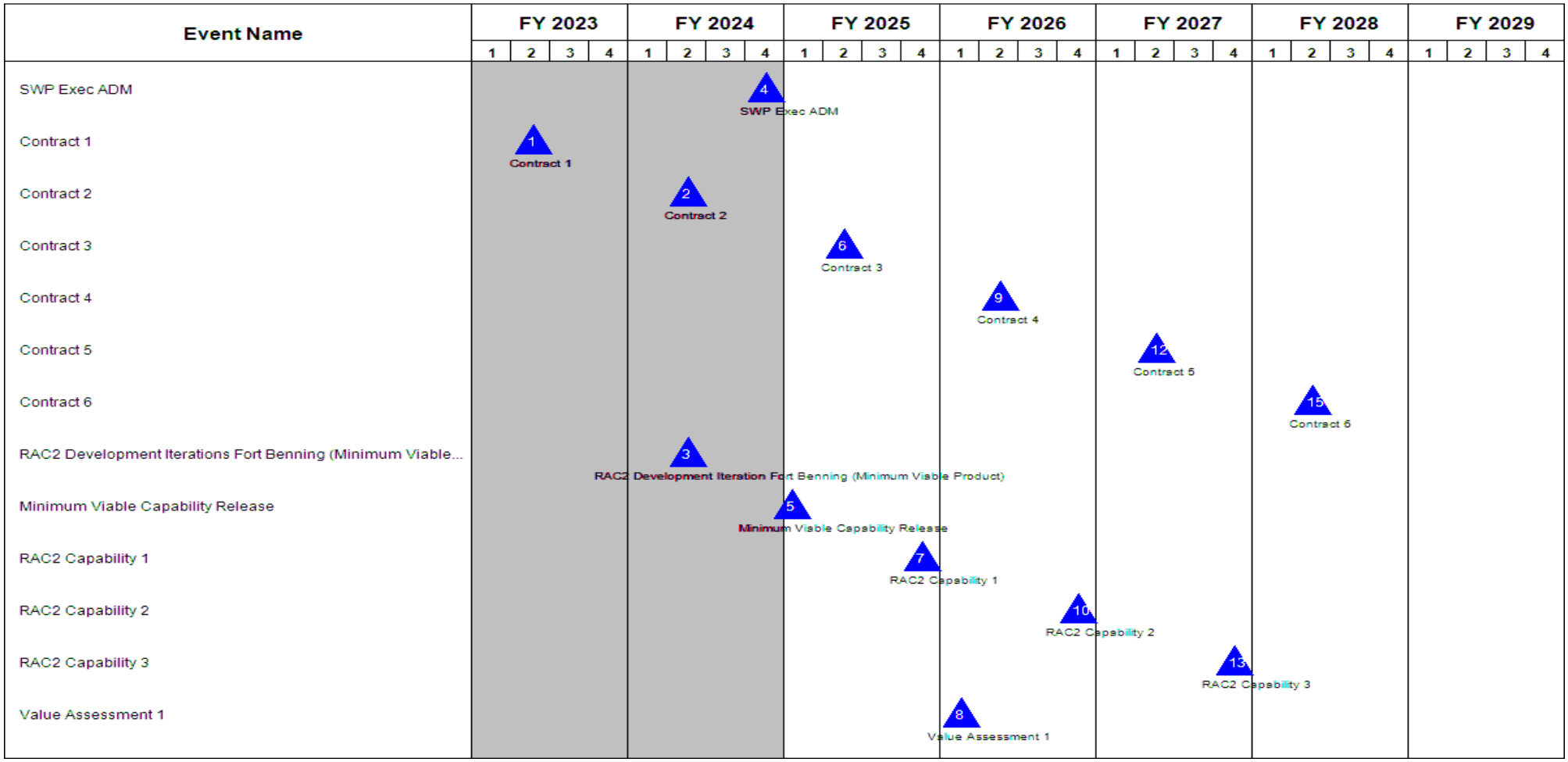

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FG8 / *Common Robotic Controller*

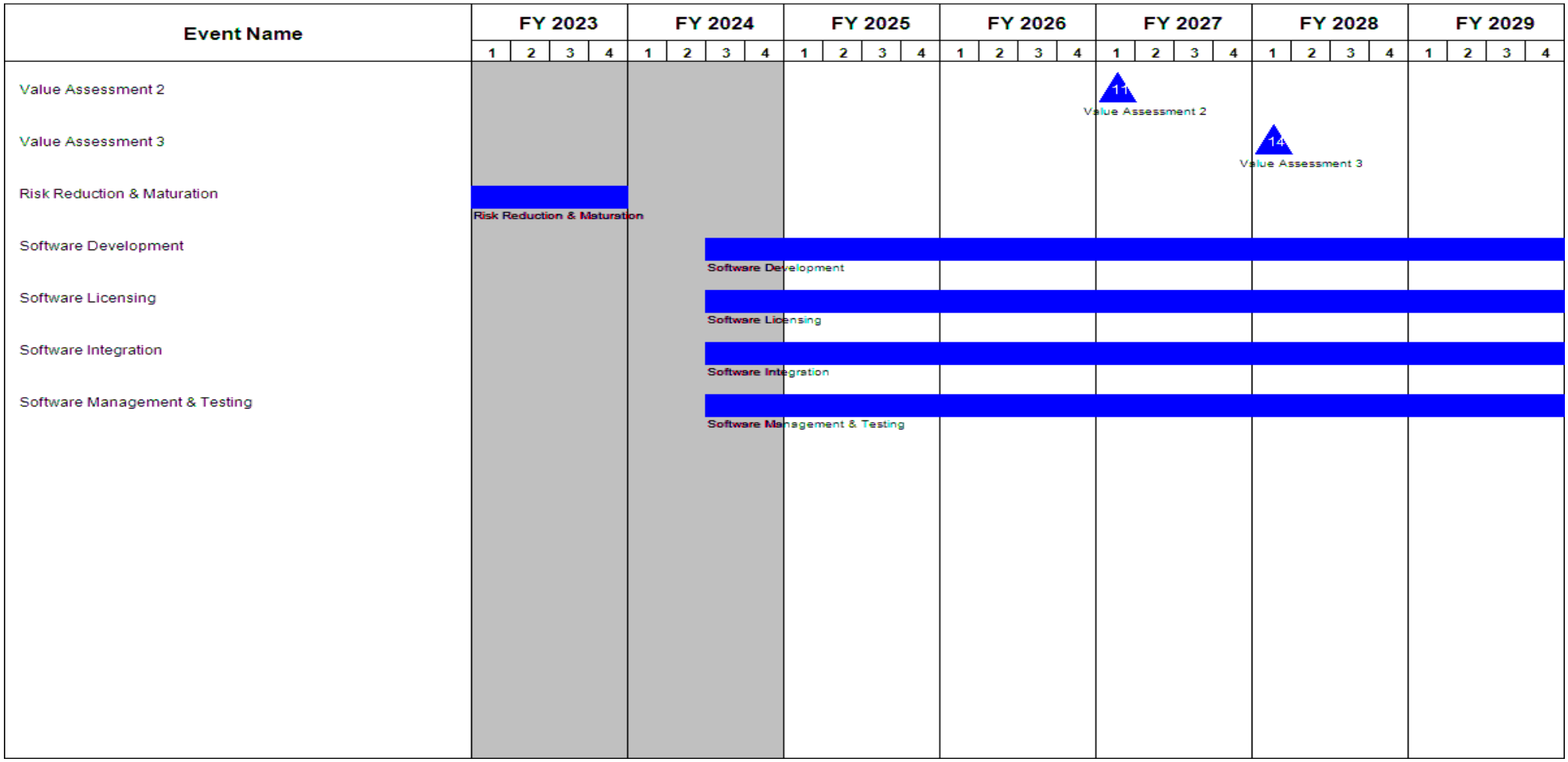

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605053A / *Ground Robotics*	**Project (Number/Name)** FG8 / *Common Robotic Controller*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
SWP Plan ADM	3	2022	3	2022
SWP Exec ADM	4	2024	4	2024
CNS	3	2022	3	2022
Contract 1	2	2023	2	2023
Contract 2	2	2024	2	2024
Contract 3	2	2025	2	2025
Contract 4	2	2026	2	2026
Contract 5	2	2027	2	2027
Contract 6	2	2028	2	2028
RAC2 Development Iterations Fort Benning (Minimum Viable Product)	2	2024	2	2024
Minimum Viable Capability Release	1	2025	1	2025
RAC2 Capability 1	4	2025	4	2025
RAC2 Capability 2	4	2026	4	2026
RAC2 Capability 3	4	2027	4	2027
Value Assessment 1	1	2026	1	2026
Value Assessment 2	1	2027	1	2027
Value Assessment 3	1	2028	1	2028
Risk Reduction & Maturation	2	2022	4	2023
Software Development	3	2024	4	2030
Software Licensing	3	2024	4	2030
Software Integration	3	2024	4	2030
Software Management & Testing	3	2024	4	2030

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605054A / *Emerging Technology Initiatives*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	-	212.750	201.274	164.734	-	164.734	99.218	76.713	77.550	78.321	0.000	910.560
DJ9: *Guam Defense System - Management*	-	-	-	50.902	-	50.902	-	-	-	-	0.000	50.902
FI3: *Rapid Capability Development and Maturation*	-	200.218	188.173	100.576	-	100.576	85.672	62.872	63.558	64.192	0.000	765.261
FL7: *Rapid Capability Support*	-	12.532	13.101	13.256	-	13.256	13.546	13.841	13.992	14.129	0.000	94.397

Note

In Fiscal Year (FY) 2025, Project DJ9/Guam Defense System - Management is a new start within the PE 0605054A /Emerging Technology Initiatives program.

A. Mission Description and Budget Item Justification

Emerging Technology Initiatives funds prototyping and demonstration, fielding and sustainment of selected technology enabled capabilities to defeat emerging threats against ground, aviation, command, control, communications & reconnaissance systems and equipment, precision weapons, and Soldier equipment. Funding facilitates maturation and demonstration of emerging technologies and systems in relevant varied environments and tactical/operational scenarios. The primary goal is to deliver experimental prototypes for residual combat capability through a collaborative and accelerated acquisition process for transition to a Program of Record in an Army or DoD Program Management Office. Technologies will be demonstrated in operational environments, performing tactical/operational scenarios. Additionally, funds support the Air & Missile Defense (AMD) Army Modernization Priority.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	244.047	201.274	113.834	-	113.834
Current President's Budget	212.750	201.274	164.734	-	164.734
Total Adjustments	-31.297	0.000	50.900	-	50.900
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-25.001	-			
• SBIR/STTR Transfer	-6.296	-			
• Adjustments to Budget Years	-	-	50.900	-	50.900

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605054A *I Emerging Technology Initiatives*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
Project: FI3: *Rapid Capability Development and Maturation*		
Congressional Add: *Program Increase: Semi-Autonomous Offensive Swarming*	9.000	-
Congressional Add: *Program Increase: C-sUAS HEL Atmospheric Study and Prototype Sensors*	15.000	-
Congressional Add: *Program Increase: Palletized High Energy Laser*	5.000	-
Congressional Add: *Program Increase: Counter UAS Technologies*	25.000	-
Congressional Add: *Program Increase: Extended Shortwave Infrared Sensor for High Energy Lasers*	5.000	-
Congressional Add Subtotals for Project: FI3	59.000	-
Congressional Add Totals for all Projects	59.000	-

Change Summary Explanation

Increased funding reflects the new start Guam Defense System - Management within the Emerging Technology Initiatives program in FY 2025.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605054A / *Emerging Technology Initiatives*	Project (Number/Name) DJ9 / *Guam Defense System - Management*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DJ9: *Guam Defense System - Management*	-	-	-	50.902	-	50.902	-	-	-	-	0.000	50.902
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Guam Defense System - Management is a new start within the Emerging Technology Initiatives program in FY 2025.

A. Mission Description and Budget Item Justification

In response to section 1660(b) of the FY23 NDAA, the Army was designated as the Service Acquisition Executive (SAE) for the Joint Special Interest ACAT 1D Integrated Air and Missile Defense of Guam (IAMDoG) program. The funds allocated to this project support the development and integration of Joint capability for the Defense of Guam against Air and Missile threats. The initial effort optimizes architecture design and synchronizes currently programmed Joint capability for the immediate Defense of Guam. Extended efforts focus on the development of a single system (Guam Defense System) that integrates several Service and Agency command and control systems into a Joint integrated battle management capability.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: IAMDoG	-	-	50.902
Description: The funds allocated to this project support manning and other costs to operate the Joint Program Executive Office (JPEO) for Integrated Air and Missile Defense of Guam (IAMDoG). Costs include but are not limited to RCCTO Core Civilians, Matrix, and Contractors supporting IAMDoG System, other Agency and Service members of the JPEO, facilities to include a Special Access Program (SAP) Systems Integration Laboratory (SIL)/Hardware in the Loop (HWIL), information technology, and other Shared Support Costs. Studies performed or directed by JPEO IAMDoG and additional expertise on programs supporting the IAMDoG architecture are included. The JPEO is working with other Services and Agencies developing and integrating IAMD systems on Guam to determine resourcing requirements for FY26 and beyond. Additionally, the FY25 study program will provide analytical underpinnings to inform future investment requirements. ***FY 2025 Plans:*** Full staffing of the JPEO, initial operation of the Guam Defense System digital environment; and completion of independent studies to inform and scope the effort to optimize the Joint Integrated Air and Missile Defense architecture. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increase of $50.902M reflects the new start Guam Defense System - Management within the Emerging Technology Initiatives program in FY 2025.			
Accomplishments/Planned Programs Subtotals	-	-	50.902

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605054A / *Emerging Technology Initiatives*	**Project (Number/Name)** DJ9 / *Guam Defense System - Management*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605054A / *Emerging Technology Initiatives*	Project (Number/Name) DJ9 / *Guam Defense System - Management*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IAMDoG Labor Support	TBD	TBD : TBD	-	-		-		22.902		-		22.902	0.000	22.902	-
		Subtotal	-	-		-		22.902		-		22.902	0.000	22.902	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IAMDoG Integration Laboratory Development and Architecture Studies	TBD	TBD : TBD	-	-		-		25.300		-		25.300	0.000	25.300	-
		Subtotal	-	-		-		25.300		-		25.300	0.000	25.300	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IAMDoG Support Costs	TBD	TBD : TBD	-	-		-		2.700		-		2.700	0.000	2.700	-
		Subtotal	-	-		-		2.700		-		2.700	0.000	2.700	N/A

	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		50.902		-		50.902	0.000	50.902	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605054A / *Emerging Technology Initiatives*	**Project (Number/Name)** DJ9 / *Guam Defense System - Management*

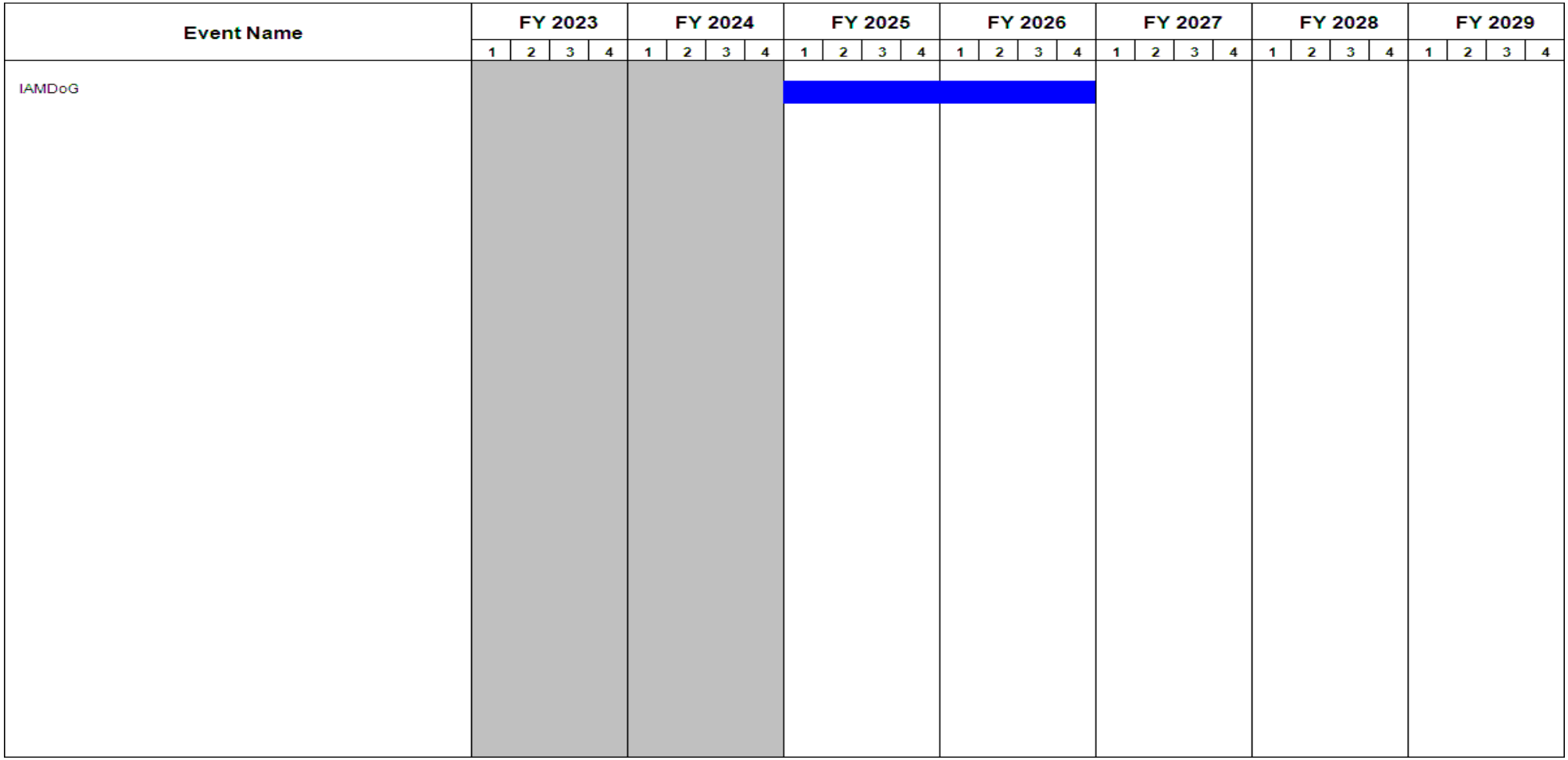

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605054A / *Emerging Technology Initiatives*	**Project (Number/Name)** DJ9 / *Guam Defense System - Management*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
IAMDoG	1	2025	4	2026

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605054A / *Emerging Technology Initiatives*				Project (Number/Name) FI3 / *Rapid Capability Development and Maturation*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
FI3: *Rapid Capability Development and Maturation*	-	200.218	188.173	100.576	-	100.576	85.672	62.872	63.558	64.192	0.000	765.261
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

A portion of this funding line has directly supported the Army Air and Missile Defense Modernization Priority.

This project funds high-priority, threat-based projects with the intent to deliver an operationally effective capability in the near- and mid-terms. Efforts will include accelerated materiel development and prototyping based on anticipated and emerging threats and opportunities. Efforts include development, acquisition, assessment, maturation, and transition of prototype technologies to acquisition programs. Efforts include Directed Energy; Long Range Precision Fires; Air and Missile Defense; Cyber; Artificial Intelligence; Signals Intelligence (SIGINT); Unmanned Aerial Systems (UAS) and Counter UAS (C-UAS); Communications; Survivability; Robotics; Advanced Ground and Aviation Systems; and other high priority emerging threats and opportunities. Funds may also allow for acceleration of critical capabilities to counter urgent and emerging threats for transition to programs of record. Funding may also be used to acquire specialized expertise to execute an initiative.

Prototypes a Human Machine Integrated Formation (HMIF) that exploits advances in robotics and leverages integration enablers of automation and connectivity to enable an agile, dispersed, logistically resilient, lethal formation that can rapidly converge effects to defeat a near-peer enemy with precision and speed. This will prototype and integrate operationally prioritized payloads for Intelligence, Surveillance and Reconnaissance (ISR) and lethality with ground and air robotic platforms and formation enablers of networking, command and control, and autonomy to deliver both light unit and heavy unit variants within the H-MIF material solution.

Conducts technical assessments of technologies, capabilities, and potential solutions. Such areas include but not limited to Operational Artificial Intelligence (AI) Systems, Autonomy Systems, Robotic Platforms, Advanced Sensing Systems, Decoy Capabilities, Extending Communications, Long Range Persistent Surveillance, Advanced Mobile Weapon Systems, and Modular Open System Architectures (MOSA). Develops the transition plan to accelerate priority efforts and other concepts to capabilities for program offices. Continues identification of emerging priority operational gaps that align to technologies that support Army Service Components (ASCs), and operational line units with prototype solutions identified through coordination with US Army Programs of Record, Science and Technology (S&T) programs, and industry partners.

The Army Rapid Capabilities and Critical Technologies Office (RCCTO) expedites residual combat materiel capabilities to the Warfighter to provide critical capability in support of the Army modernization strategy and transitions the capability to an acquisition program for production and fielding as an enduring need. RCCTO assesses Commercial-Off-The-Shelf (COTS), Government Off-The-Shelf (GOTS), and Non-Developmental Item (NDI) (non-standard equipment) solutions for modification and/or integration to address changes in contested environments with materiel solutions for forces deployed globally. RCCTO engages with industry to identify innovative solutions to high priority problem sets and funds quick turn analysis, modeling and prototyping efforts through this project to demonstrate cross-cutting military utility.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605054A / *Emerging Technology Initiatives*	**Project (Number/Name)** FI3 / *Rapid Capability Development and Maturation*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Directed Energy Maneuver - Short Range Air Defense ***Description:*** This effort matures, integrates, and demonstrates High Energy Laser technologies on Army Stryker vehicles to support Maneuver- Short Range Air Defense (M-SHORAD) requirements and reduce risk for M-SHORAD. The goal is to protect maneuvering forces from Rocket, Artillery, and Mortar (RAM) and Unmanned Aerial System (UAS) threats.	74.824	-	-
Title: Critical Technologies Office (CTO) ***Description:*** Continued identification of emerging priority operational gaps that align to technologies that support Army Service Components (ASCs), and operational line units with prototype solutions, Science and Technology (S&T) transition, and industry solutions. Conducted technical assessments of technologies, capabilities and potential solutions. Such areas included but were not limited to Operational Artificial Intelligence (AI) systems, Advanced Sensing Systems, Decoy Capabilities, Extending Communications, Long Range Persistent Surveillance, Human-Machine Integrated formation, Advanced Mobile Weapon Systems, and Modular Open System Architectures (MOSA). Continues to bridge the valley of death to further mature and transition priority efforts, and other concepts, to capabilities for program offices. ***FY 2024 Plans:*** Continues identification of emerging priority operational gaps that align to technologies that support Army Service Components (ASCs), and operational line units with prototype solutions identified through Innovation Day events. Develop prototypes that bridge the valley of death to further mature and transition priority S&T efforts to capabilities for program offices. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funds that were recently secured within the Critical Technologies Office are now allocated under the HMIF effort	3.790	5.000	-
Title: Human Machine Integrated Formation (HMIF) ***Description:*** Provide an initial Human Machine Integrated capability to Infantry and Armor formations. ***FY 2025 Plans:*** Human Machine Integrated Formation (HMIF) accelerates the fielding of a robotic formation in order to leverage machines to offload risk and provide Soldiers with additional information for decision making for Armored and Infantry Formations. HMIF formations will include ground and air systems and enablers to aid in the human decision-making process to find, fix and engage enemy targets. RCCTO HMIF prototype development supports existing and future robotic programs of record by mitigating risk associated with enabling capabilities such as the common architecture, communications and network capabilities and mitigation of safety risks hindering operational employment. In addition to ground platforms, HMIF will be integrated with UAS, enablers, and a variety of payloads from existing programs of record or developed and transitioned to programs of record. ***FY 2024 to FY 2025 Increase/Decrease Statement:***	-	-	32.993

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 increase of $32.993M due to HMIF effort moving from Concept Prototyping to separate HMIF effort. H-MIF increase reflects strategically aligning funds with the expansion of activities to include engineering, integration, and soldier touchpoint events.			
Title: Concept Prototyping	15.509	13.532	0.347
Description: Senior Leaders from across the Army, including Program Executive Officers (PEO's), Army Futures Command's Cross Functional Team (AFC CFT) Directors and Research and Development Center Directors, and other subject matter experts select the most impactful projects for the RCCTO Board of Directors approval. Concept Prototyping funds projects focused on but not limited to the following: machine learning, resilient and open standard communications, advanced network operation tools, counter unmanned aerial systems, unmanned aerial and terrestrial sensors, advanced energy efficient battery technologies, ruggedized and resilient power electronics, advanced low size, weight, and power (SWaP) energy generation and storage systems, advanced manned/unmanned aerial systems, advanced manned/unmanned ground systems, weapon system cyber resiliency, advanced defensive and offensive cyber, quantum computing, quantum sensing, assured position, navigation, and timing (APNT), security orchestration and automated response, multi-domain command and control (C2), electronic warfare, autonomy & robotics, soldier borne sensors and capabilities, edge processing technologies, information processing, exploitation and dissemination (PED) tools, tactical data fabrics, resilient water support and safety monitoring capabilities, sensor to shooter capabilities and modeling and simulations in support of these domain areas. These efforts provide the Army initial operational capability for future integration into a program of record and include market research, technology analysis, project planning and development, prototyping and testing requirements. ***FY 2024 Plans:*** Prototype, demonstrate and evaluate capabilities. In FY24 RCCTO Concept Prototyping will continue to fund multiple year efforts through the Rapid Acquisition Prototyping Project Office (RAPPO), Advanced Concepts and Experimentation (ACE), Cyber, Electronic Warfare, and Information Dominance (CEID) and Critical Technologies Office (CTO) project offices. These efforts include a rugged, enclosed-rotor sUAS specifically designed to function within a complex hazard and obstacle-rich environment; hybrid data management architecture; a Low Probability of Intercept (LPI) / Low Probability of Detection (LPD) networked communication capability between vehicles fitted with a C4ISR/EW Modular Open Suite of Standards (CMOSS); third level of processing, exploitation, and dissemination (PED) tools; an extreme cold weather storage and distribution solution for both fresh and waste water; a novel modular ruggedized 15 kilowatt (kW) Bi-directional high-density inverter that will enable a			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Direct Current/Alternating Current (DC/AC) routing platform capable of both synching and sourcing power from established grids or supporting an off-grid mode for standalone applications. ***FY 2025 Plans:*** Continues the Family of Bidirectional Tactical Inverter (FoBTI) efforts from FY24 to build and test full-scale operational prototypes with delivery to the government 4QFY25. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The $13.185 million reduction from FY 2024 to FY 2025 is a result of the HMIF effort, previously included under Concept Prototyping, now being represented as a distinct line item, and the completion of Innovation Day efforts in FY 2024			
Title: Wideband Selective Propagating Radar (WiSPR) ***Description:*** Prototyping effort to develop a Modular Active Protection System (MAPS) compliant Low Observable Radar to detect incoming threats, including anti-armor munitions and small unmanned aerial vehicles, for Active Protection Systems. ***FY 2024 Plans:*** Prototyping effort to develop a "Low Observable" Radar (60 GHZ) to detect incoming anti-armor rounds and communicate among vehicles. This will be virtually undetectable RADAR and Communications enforced by physics (not assumptions of adversary capabilities) by providing a combined Low Probability to Detect/Low Probability to Intercept RADAR for Active Protection Systems and Communications for inter-vehicle. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding is now reflected under the Selective Propagation APS Radar (SPAR) effort (formely known as WiSPR).	9.804	15.605	-
Title: Selective Propagation APS Radar (SPAR) (Formely known as WiSPR) ***Description:*** Prototyping effort to develop a Modular Active Protection System (MAPS) compliant Low Observable Radar to detect incoming threats, including anti-armor munitions and small unmanned aerial vehicles, for Active Protection Systems. ***FY 2025 Plans:*** Fabricate and assemble the prototype radar system according to the design and engineering specifications. Test the prototype radar system to ensure it meets the project requirements and specifications. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding previously captured under the formerly known effort WiSPR, decreases from $15.605M in FY24 to $4.157M in FY25. FY 2025 decrease of $11.448M is due to completion of prototype radar system testing which transitions at the end of Q2 FY26.	-	-	4.157
Title: Operationalizing Hybrid Electric - Ground Vehicles	10.350	124.600	38.000

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: Prototype representative vehicles, Armored Multi-Purpose Vehicle (AMPV), Stryker, Joint Light Tactical Vehicle (JLTV), and High Mobility Multi Purpose Wheeled Vehicle (HMMWV), from existing Army platforms by adding mature Hybrid Electric (HE) technologies. Included as a supporting task is to establish policies to increase resilience and reduce fuel requirements. It is anticipated that these investments will demonstrate increase operational value as well as a reduction in operational energy. Objective is to measure the operational benefits of hybridization, which consists of increased operational range and silent watch endurance, reducing the platforms signature, adding a silent mobility capability, increasing power generation, and reducing joint force sustainment demands. ***FY 2024 Plans:*** Prototype up to a platoon each of the Armored Multi-Purpose Vehicle (AMPV), Stryker, Joint Light Tactical Vehicle (JLTV), and High Mobility Multi Purpose Wheeled Vehicle (HMMWV) that will validate hybrid electric technologies by Soldiers in extended operational environments. ***FY 2025 Plans:*** Continuation of Hybrid Electric Vehicle prototyping efforts for Stryker, High Mobility Multi-Purpose Wheeled Vehicle (HMMWV), Joint Light Tactical Vehicle (JLTV) and Armored Multi-Purpose Vehicle (AMPV) to validate hybrid electric technologies by Soldiers in extended operational environments. HMMWV and JLTV prototypes will complete build, integration, and vendor testing. Stryker and AMPV will complete prototype design review, initiate design build, and conduct hybrid electric integration activities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease of $86.600M from FY 2024 to FY 2025 is due to the completion of build / integration phase and the initiation of the testing phase.			
Title: Offensive Swarm (HIVE)	7.864	11.914	6.500
Description: Prototyping effort to develop an offensive Unmanned Aerial Systems that will consist of a Control Node UAS, Attack UAS, and UAS intelligent swarming software framework and the ground station. The intelligent swarming software framework provides the logic to carry out the mission including cooperative engagement with the Unit of Action. The Ground Station provides the operator interface to the HIVE with minimal impact to cognitive workload and physical displacement of other resources. ***FY 2024 Plans:*** Rapid Acquisition Prototyping Project Office (RAPPO) - HIVE, This funding will enable: (1) integration of commercial off the shelf parts (2) Developmental testing and design refinement of a unmanned aerial systems and integrations of COTS parts for an offensive attack swarm. Additionally the funding will enable: (3) integration of commercial off the shelf (COTS) and Government off the shelf (GOTS) software/hardware, (4) Developmental testing and design refinement of a unmanned aerial systems and			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
integrations of GOTS/COTS hardware/software for an offensive kinetic attack swarm that can operate within a GPS denied environment ; (5) Operational Assessments with unit of action. ***FY 2025 Plans:*** This funding will enable the continuation and completion of the following efforts: (1) munition integration, (2) swarm communication enhancements, (3) Ground Control Station (GCS) enhancements, (4) Tactical Assault Kit (TAK) integration, (5) Automated Target Recognition (ATR) enhancements. This funding will also enable the test and validation of capabilities and an Operational Assessment with unit of action. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease of $5.414M from FY 2024 to FY 2025 reflects the completion of integration, testing and one year of contracting logistics support.			
Title: Organizational Expenses ***Description:*** RCCTO Shared Support. ***FY 2024 Plans:*** Includes support agreements with the Garrisons (Fort Belvoir and Redstone Arsenal) for base operational support; Aberdeen Proving Ground; subject matter expertise in acquisition, program management and law; Information Technology (IT) Network support; IT Software Licenses; computers/mobile devices (new and refresh); supplies; training; travel; etc. ***FY 2025 Plans:*** Includes support agreements with the Garrisons (Fort Belvoir and Redstone Arsenal) for base operational support; Aberdeen Proving Ground; subject matter expertise in acquisition, program management and law; IT Network support; IT Software Licenses; computers/mobile devices (new and refresh); supplies; training; travel; etc. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increase of $1.057M due to IT refresh requirement costs for all RCCTO locations (APG, FBV and HSV).	19.077	17.522	18.579
Accomplishments/Planned Programs Subtotals	141.218	188.173	100.576

	FY 2023	FY 2024
Congressional Add: Program Increase: Semi-Autonomous Offensive Swarming	9.000	-
FY 2023 Accomplishments: During FY23, the congressional add enabled the HIVE program to advance swarming technology to point that it will be ready for substantial demonstrations in FY24 (including operational		

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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	FY 2023	FY 2024
pairing and target prosecution with Family of Counter Unmanned Aircraft Systems "FOCUS" during Project Convergence Capstone 4 "PCC4" in MAR 24).		
Congressional Add: Program Increase: C-sUAS HEL Atmospheric Study and Prototype Sensors ***FY 2023 Accomplishments:*** This effort quantified and characterized the effectiveness of optical systems against Unmanned Air Systems (UAS) and cruise missile threats. It developed instrumentation and performed the necessary studies required to determine Counter- Unmanned Air Systems (C-UAS) parameters to ensure C-UAS systems deployed in the area of responsibility will be effective for countering aggressive threats.	15.000	-
Congressional Add: Program Increase: Palletized High Energy Laser ***FY 2023 Accomplishments:*** This effort developed Army concepts for Directed Energy (DE) system sustainment in operational environments. Maintained and provided Field Service Representative (FSR) support for two Army DE systems during operational assessment.	5.000	-
Congressional Add: Program Increase: Counter UAS Technologies ***FY 2023 Accomplishments:*** This effort supported the delivery of two complete tactical power and thermal subsystems which includes a full set of spares and maintenance kits. Additional effort included the design, test, and certification of battery modules under UN/DOT 38.3 Transportation Testing creating a standard module suitable for various future Army Directed Energy (DE) programs.	25.000	-
Congressional Add: Program Increase: Extended Shortwave Infrared Sensor for High Energy Lasers ***FY 2023 Accomplishments:*** This effort improved current Short-Wave Infrared (SWIR) cameras operating at < 1.7 microns. The extended SWIR (eSWIR) atmospheric band (2-2.4 microns) has less scattering, high atmospheric transmission, higher contrast and is less susceptible to turbulence. eSWIR provided better tracking and range. Effort replaced SWIR sensors with eSWIR capability. This project advanced eSWIR sensors to match developing Laser illuminators in the eSWIR band.	5.000	-
Congressional Adds Subtotals	59.000	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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D. Acquisition Strategy

The Army Rapid Capabilities and Critical Technologies Office (RCCTO) capitalizes on current and emerging technologies to provide near-term and mid-term solutions to address emerging threats and high impact capability opportunities for U.S. Army Forces deployed globally. This is accomplished in one of two ways: 1) adapting COTS/GOTS/NDI equipment to meet operational needs and 2) developing emerging deployable capability through research and development organizations, academia, and industry. RCCTO uses streamlined acquisition methods, processes and techniques to rapidly acquire the capability; these methods vary by project. RCCTO has procurement authority and an in-house contracting staff, with the flexibility to use both traditional and non-traditional contracting approaches. To reach non-traditional vendors, RCCTO will use non-standard contracting methods, such as Other Transaction Authority agreements. Where practicable, prototypes will be acquired using competitive procedures. Soldier touchpoints will be conducted to provide feedback in support of Army requirements generation, prototype maturation, fielding residual combat capability to a unit of action, and future capability development. When designated by the RCCTO Board of Directors, projects will be transitioned to an approved acquisition program for production and fielding.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
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Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
DE M-SHORAD Matrix, Contractor Labor	Various	RCCTO : Huntsville, AL	15.116	-		-		-		-		-	Continuing	Continuing	Continuing
DE M-SHORAD Facilities, IT/Supplies, Travel, Training	Various	RCCTO/DEOP : Huntsville, AL	-	0.080	Dec 2022	-		-		-		-	0.000	0.080	-
WiSPR	TBD	Various : Various	-	-		0.050		-		-		-	0.000	0.050	-
Selective Propagation APS Radar (SPAR) (formerly WiSPR)	TBD	Various : Various	-	-		-		0.030		-		0.030	0.000	0.030	-
Climate Ground Vehicles & Fuels	Various	Various : Detroit Arsenal, MI; Houghton, MI; Azusa, CA	0.145	0.250		3.015		-		-		-	0.000	3.410	-
Operationalizing Hybrid Electric - Ground Vehicles	Various	Various : Detroit Arsenal, MI; Houghton, MI; Azusa, CA	-	-		-		1.945		-		1.945	0.000	1.945	-
Human Machine Integrated Formation (HMIF)	Various	Various : Various	-	-		-		8.063		-		8.063	Continuing	Continuing	-
Offensive Swarm (HIVE)	Various	Various : Various	0.273	0.596		0.778		0.420		-		0.420	0.000	2.067	-
Concept Prototyping	Various	Various : Various	4.297	3.311		1.905		0.029		-		0.029	Continuing	Continuing	Continuing
Matrix, Contractor Labor	Various	Various : Various	38.629	12.227		12.090		12.819		-		12.819	0.000	75.765	-
Facilities, IT/Supplies, Travel, Training	Various	Various : Various	11.857	6.850		5.432		5.760		-		5.760	0.000	29.899	-
Program Increase: Autonomous Offensive Swarming	MIPR	Various : Various	-	0.450		-		-		-		-	0.000	0.450	-
Program Increase: C-sUAS HEL atmospheric study and prototype sensors Program Management	MIPR	RCCTO : Huntsville, AL	-	1.125	May 2023	-		-		-		-	0.000	1.125	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
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Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Increase: palletized high energy laser Program Management	MIPR	RCCTO : Huntsville, AL	-	0.250	May 2023	-		-		-		-	0.000	0.250	-
Program Increase: Counter UAS technologies Program Management	MIPR	RCCTO : Huntsville, AL	-	1.675	May 2023	-		-		-		-	0.000	1.675	-
Program Increase: extended shortwave infrared sensors for high energy lasers Program Management	MIPR	RCCTO : Huntsville, AL	-	0.500	May 2023	-		-		-		-	0.000	0.500	-
		Subtotal	70.317	27.314		23.270		29.066		-		29.066	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
DE M-SHORAD CLS, Procurement & Integration	C/CPFF	TBD : Huntsville, AL	108.650	72.182	Apr 2023	-		-		-		-	Continuing	Continuing	Continuing
DE M-SHORAD Software Support	MIPR	Various : TBD	-	1.000	May 2023	-		-		-		-	0.000	1.000	-
Selective Propagation APS Radar (SPAR) (formerly WiSPR)	TBD	MIT Lincoln Laboratory : Lexington, MA	2.700	8.554		14.555		3.727		-		3.727	0.000	29.536	-
Operationalizing Hybrid Electric - Ground Vehicles	Various	Various : Detroit Arsenal, MI; Houghton, MI; Azusa, CA	4.288	7.412		89.234		28.141		-		28.141	0.000	129.075	-
Offensive Swarm (HIVE)	Various	Various : Various	3.911	6.818		11.136		6.080		-		6.080	0.000	27.945	-
Concept Prototyping	Various	TBD : Various	239.966	5.293		9.467		0.242		-		0.242	Continuing	Continuing	Continuing
Human Machine Integrated Formation (HMIF)	Various	Various : Various	-	-		-		10.689		-		10.689	Continuing	Continuing	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Increase: Autonomous Offensive Swarming	TBD	TBD : TBD	-	6.550		-		-		-		-	0.000	6.550	-
Program Increase: C-sUAS HEL atmospheric study and prototype sensors	TBD	TBD : TBD	-	13.875	May 2023	-		-		-		-	0.000	13.875	-
Program Increase: palletized high energy laser	C/CPFF	SAIC, Inc : Huntsville, AL	-	4.750	May 2023	-		-		-		-	0.000	4.750	-
Program Increase: Counter UAS technologies	C/CPFF	TBD : Boulder, NV & Huntsville, AL	-	23.325	May 2023	-		-		-		-	0.000	23.325	-
Program Increase: extended shortwave infrared sensors for high energy lasers	MIPR	EPIR : Bolingbrook, IL	-	4.500	May 2023	-		-		-		-	0.000	4.500	-
		Subtotal	359.515	154.259		124.392		48.879		-		48.879	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Critical Technology Office (CTO)	Various	Various : TBD	9.817	3.790		5.000		-		-		-	0.000	18.607	-
Selective Propagation APS Radar (SPAR) (formerly WiSPR)	TBD	MIT Lincoln Laboratory : Lexington, MA	-	0.500		0.500		0.400		-		0.400	0.000	1.400	-
Operationalizing Hybrid Electric - Ground Vehicles	Various	Various : Detroit Arsenal, MI; Houghton, MI; Azusa, CA	1.497	2.588		31.151		2.597		-		2.597	0.000	37.833	-
Offensive Swarm (HIVE)	Various	Various : Various	-	0.050		-		-		-		-	0.000	0.050	-
Concept Prototyping	TBD	TBD : Various	23.447	4.264		0.254		0.042		-		0.042	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
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Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Human Machine Integrated Formation (HMIF)	TBD	Various : Various	-	-		-		3.060		-		3.060	Continuing	Continuing	-
		Subtotal	34.761	11.192		36.905		6.099		-		6.099	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
DE M-SHORAD Test & Evaluation	MIPR	Various : Various	27.400	1.562	Apr 2023	-		-		-		-	0.000	28.962	-
Selective Propagation APS Radar (SPAR) (formerly WiSPR)	TBD	MIT Lincoln Laboratory : Lexington, MA	-	0.450		0.500		-		-		-	0.000	0.950	-
Operationalizing Hybrid Electric - Ground Vehicles	Various	Various : Detroit Arsenal, MI; Houghton, MI; Azusa, CA	0.058	0.100		1.200		5.317		-		5.317	0.000	6.675	-
Offensive Swarm (HIVE)	Various	Various : Various	-	0.400		-		-		-		-	0.000	0.400	-
Concept Prototyping	TBD	TBD : Various	55.782	2.941		1.906		0.034		-		0.034	Continuing	Continuing	Continuing
Program Increase: Autonomous Offensive Swarming	TBD	TBD : TBD	-	2.000		-		-		-		-	0.000	2.000	-
Human Machine Integrated Formation (HMIF)	TBD	Various : Various	-	-		-		11.181		-		11.181	Continuing	Continuing	-
		Subtotal	83.240	7.453		3.606		16.532		-		16.532	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	547.833	200.218		188.173		100.576		-		100.576	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
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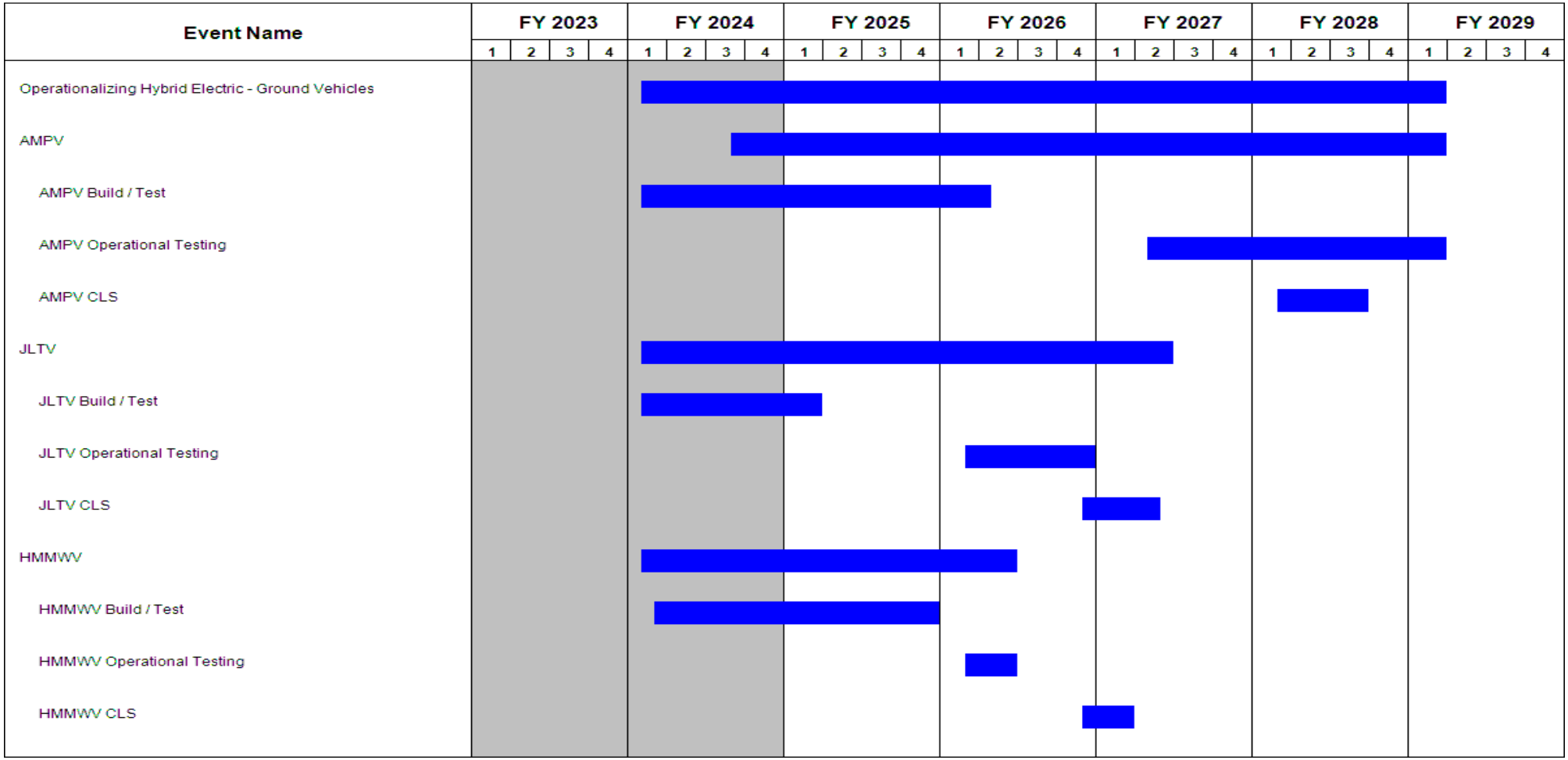

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
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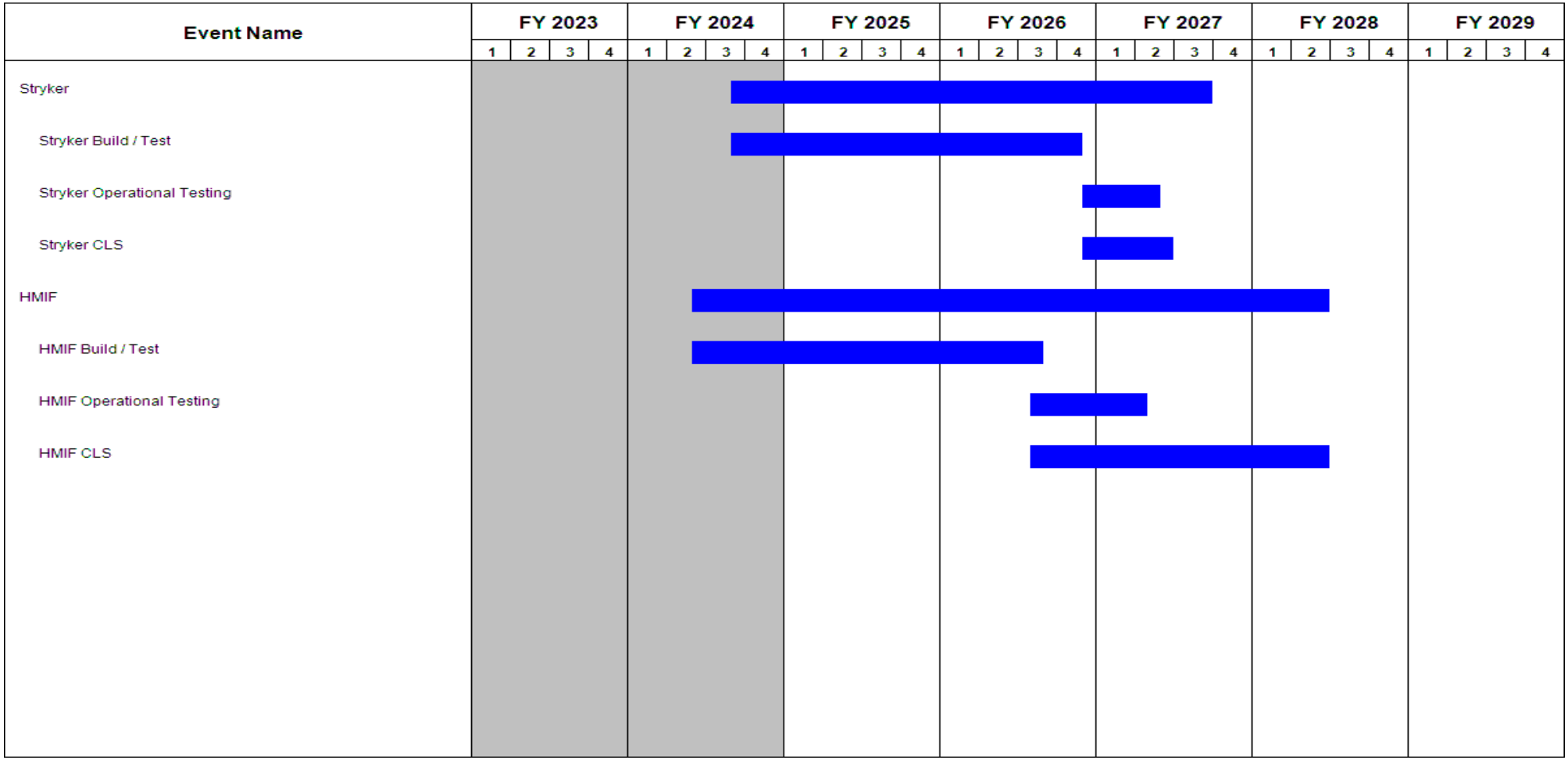

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
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Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Operationalizing Hybrid Electric - Ground Vehicles	1	2024	1	2029
AMPV	3	2024	1	2029
AMPV Build / Test	1	2024	2	2026
AMPV Operational Testing	2	2027	1	2029
AMPV CLS	1	2028	3	2028
JLTV	1	2024	2	2027
JLTV Build / Test	1	2024	1	2025
JLTV Operational Testing	1	2026	4	2026
JLTV CLS	4	2026	2	2027
HMMWV	1	2024	2	2026
HMMWV Build / Test	1	2024	4	2025
HMMWV Operational Testing	1	2026	2	2026
HMMWV CLS	4	2026	1	2027
Stryker	3	2024	3	2027
Stryker Build / Test	3	2024	4	2026
Stryker Operational Testing	4	2026	2	2027
Stryker CLS	4	2026	2	2027
HMIF	2	2024	2	2028
HMIF Build / Test	2	2024	3	2026
HMIF Operational Testing	3	2026	2	2027
HMIF CLS	3	2026	2	2028

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605054A / *Emerging Technology Initiatives*	Project (Number/Name) FL7 / *Rapid Capability Support*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FL7: *Rapid Capability Support*	-	12.532	13.101	13.256	-	13.256	13.546	13.841	13.992	14.129	0.000	94.397
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project funds rapid prototyping and delivery of residual combat capability to enable the Army Modernization Priorities and the National Defense Strategy. These efforts include long range precision fires, air and missile defense, robotics, ground, aviation, Soldier, cyber, and command, control, communications, computers, intelligence, surveillance & reconnaissance (C4ISR) missions. The primary goal is to deliver experimental prototypes to a unit of action through a collaborative and accelerated acquisition process. Technologies will be demonstrated in relevant environments, performing tactical/operational scenarios. Efforts will focus on high-priority, threat-based projects with the intent to deliver an operationally effective capability in the near- and mid-terms. Efforts will include accelerated materiel development and competitive prototyping based on anticipated and emerging threats and opportunities. This Project provides the Army an improved mechanism to effectively confront emerging threats and advance America's military dominance in accordance with the National Defense Strategy. Efforts include development, acquisition, assessment, maturation, and transition of prototype technologies to acquisition programs in Directed Energy; Long Range Precision Fires; Air and Missile Defense; Cyber; Artificial Intelligence; Signals Intelligence (SIGINT); Unmanned Aerial Systems (UAS) and Counter UAS (C-UAS); Communications; Survivability; and other high priority emerging threats and opportunities as designated by the RCCTO Board of Directors. Funds may also allow for acceleration of critical Program of Record capabilities to counter urgent and emerging threats. Funding may also be used to acquire specialized expertise to execute an initiative.

The Army RCCTO expedites the fielding of critical combat materiel capabilities to the Warfighter to meet urgent needs and support the Army modernization strategy. RCCTO assesses Commercial-Off-The Shelf (COTS), Government Off-The- Shelf (GOTS), and Non-Developmental Item (NDI) (non-standard equipment) solutions for modification and/or integration to address changes in contested environments with enduring materiel solutions for forces deployed globally. RCCTO integrates prototypes and evaluates solutions to field residual combat capability to a unit of action and transition the capability to an acquisition program for production and sustainment.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Core Labor	12.532	13.101	13.256
Description: Funding is requested for Core Labor.			
FY 2024 Plans: These funds will be used for Core Labor in support of rapid prototyping and delivery of residual combat capability to enable long range precision fires, air and missile defense, ground, aviation, Soldier, cyber and C4ISR missions.			
FY 2025 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605054A / *Emerging Technology Initiatives*	**Project (Number/Name)** FL7 / *Rapid Capability Support*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
These funds will be used for Core Civilian Labor in support of rapid prototyping and delivery of residual combat capability to enable long range precision fires, air and missile defense, robotics, ground, aviation, Soldier, cyber and C4ISR missions. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase due to requirements and adjustments in wages.			
Accomplishments/Planned Programs Subtotals	12.532	13.101	13.256

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605054A / *Emerging Technology Initiatives*	**Project (Number/Name)** FL7 / *Rapid Capability Support*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Core Labor	TBD	RCCTO : Fort Belvoir VA, Huntsville AL and APG	21.889	12.532		13.101		13.256		-		13.256	0.000	60.778	-
		Subtotal	21.889	12.532		13.101		13.256		-		13.256	0.000	60.778	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	21.889	12.532		13.101		13.256		-		13.256	0.000	60.778	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605054A / *Emerging Technology Initiatives*	**Project (Number/Name)** FL7 / *Rapid Capability Support*

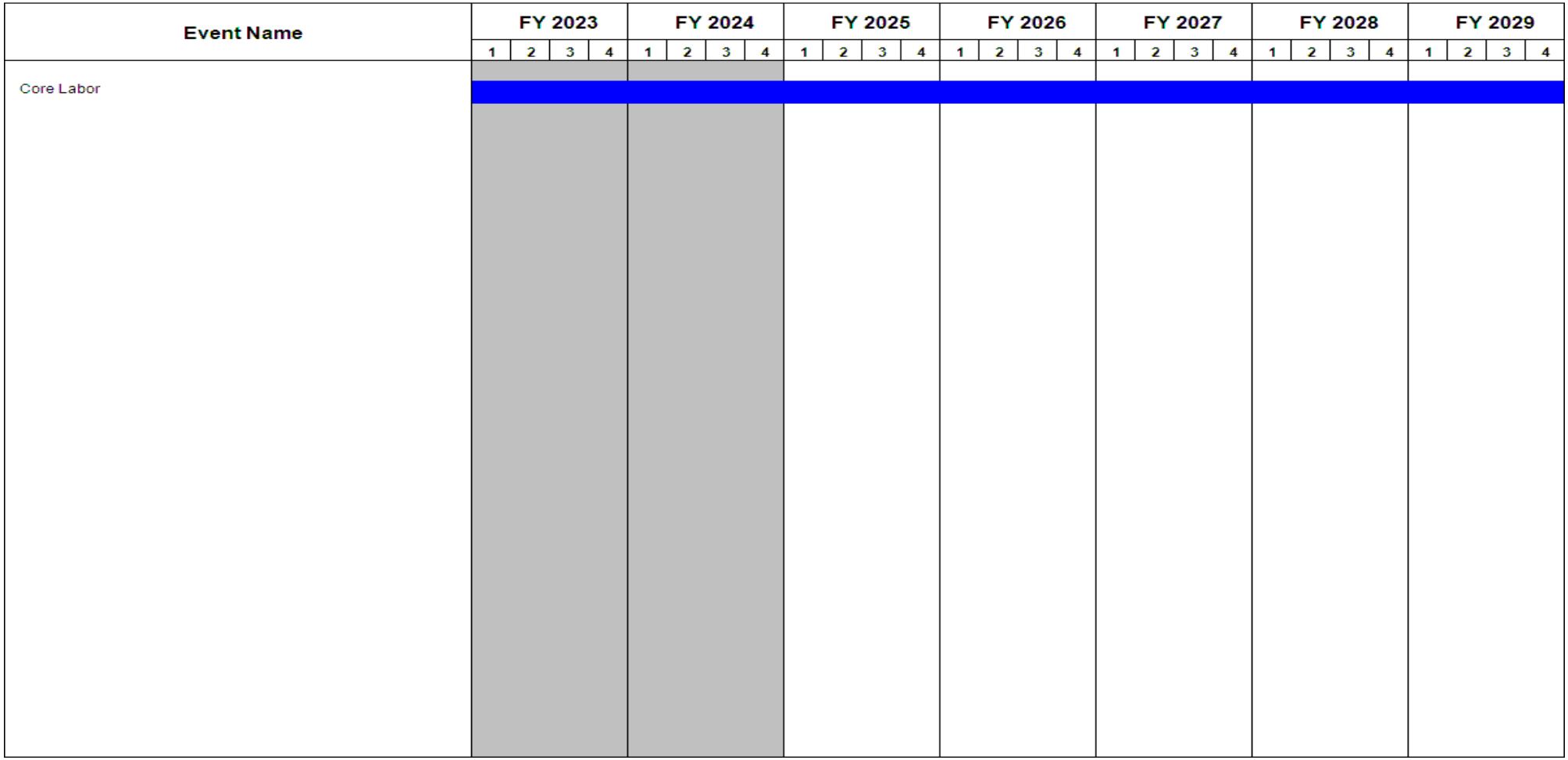

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605054A / *Emerging Technology Initiatives*	**Project (Number/Name)** FL7 / *Rapid Capability Support*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Core Labor	1	2023	4	2029