Department of Defense
Fiscal Year (FY) 2025 Budget Estimates

March 2024

Army

Justification Book Volume 3d of 3

Research, Development, Test & Evaluation, Army

RDT&E − Volume II, Budget Activity 5D

Volume 3d Table of Contents

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

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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

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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

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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

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

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

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 0605143A / *Biometrics Enabling Capability (BEC)*

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	9.186	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.186
BX5: *Biometrics Enabling Capability (BEC)*	-	9.186	-	-	-	-	-	-	-	-	0.000	9.186

A. Mission Description and Budget Item Justification

Biometrics Enabling Capability 1 (BEC 1) provides 24/7 operational support enabling time sensitive missions requiring near real time biometrics identification of known and/or suspected threat actors worldwide in support of Joint All Domain Operations (JADO). The automated and manual biometrics matching allows the Warfighter to accurately identify and detain those responsible for conducting espionage, sabotage, terrorist operations and other coercive actions against US forces and partner nations across the globe.

Justification: No RDT&E funding required in FY25

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	11.091	0.000	7.623	-	7.623
Current President's Budget	9.186	0.000	0.000	-	0.000
Total Adjustments	-1.905	0.000	-7.623	-	-7.623
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-1.500	-			
• SBIR/STTR Transfer	-0.405	-			
• Adjustments to Budget Years	-	-	-7.623	-	-7.623

Change Summary Explanation

FY25 RDT&E Funding ($7.623M) was moved to the Counter-Intelligence / Human Intelligence Equipment Program - Army (CIHEP-A) PE 0605206A.

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 0605143A / *Biometrics Enabling Capability (BEC)*	Project (Number/Name) BX5 / *Biometrics Enabling Capability (BEC)*	

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
BX5: *Biometrics Enabling Capability (BEC)*	-	9.186	-	-	-	-	-	-	-	-	0.000	9.186
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Biometrics Enabling Capability 1 (BEC 1), provides 24/7 operational support enabling time-sensitive missions requiring near real-time biometric identification of known and/or suspected threat actors worldwide in support of Joint-All-Domain-Operations (JADO). The automated and manual biometrics matching allows the Warfighter to accurately identify and detain those responsible for conducting espionage, sabotage, terrorist operations and other coercive actions against US forces and partner nations across the globe.

Justification: No RDT&E funding required in FY25

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Initiate BEC 1 as a New Start in FY22; Support the development and integration of the Capability Drop #1 requirements; Moves capability to the Cloud and adds voice-matching capability ***Description:*** Biometrics Enabling Capability 1 (BEC 1) provides 24/7 operational support enabling time sensitive missions requiring near real time biometrics identification of known and/or suspected threat actors worldwide in support of Joint All Domain Operations (JADO). The automated and manual biometrics matching allows the Warfighter to accurately identify and detain those responsible for conducting espionage, sabotage, terrorist operations and other coercive actions against US forces and partner nations across the globe.	9.186	-	-
Accomplishments/Planned Programs Subtotals	9.186	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The BEC 1 program strategy is to build upon the existing system (DoD Automated Biometric Identification System v1.3) utilizing a Systems Integrator (SI) to provide a customized integration of several COTS and GOTS products to achieve an integrated biometric capability solution to provide the capabilities required. This SI will plan, design, develop, test, and field new capability (adding a voice modality and transitioning the system to the cloud).

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 0605143A / *Biometrics Enabling Capability (BEC)*	**Project (Number/Name)** BX5 / *Biometrics Enabling Capability (BEC)*

BEC 1 Capability Drop 1 is on schedule to be deployed not later than 4QFY24.

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 0605143A / *Biometrics Enabling Capability (BEC)*	Project (Number/Name) BX5 / *Biometrics Enabling Capability (BEC)*	

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
BEC Increment 1	C/CPIF	Leidos LLC. : Fairmont, West VA	4.326	9.186	Feb 2023	-		-		-		-	0.000	13.512	-
		Subtotal	4.326	9.186		-		-		-		-	0.000	13.512	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	4.326	9.186		-		-		-		-	0.000	13.512	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 0605143A / *Biometrics Enabling Capability (BEC)*	**Project (Number/Name)** BX5 / *Biometrics Enabling Capability (BEC)*

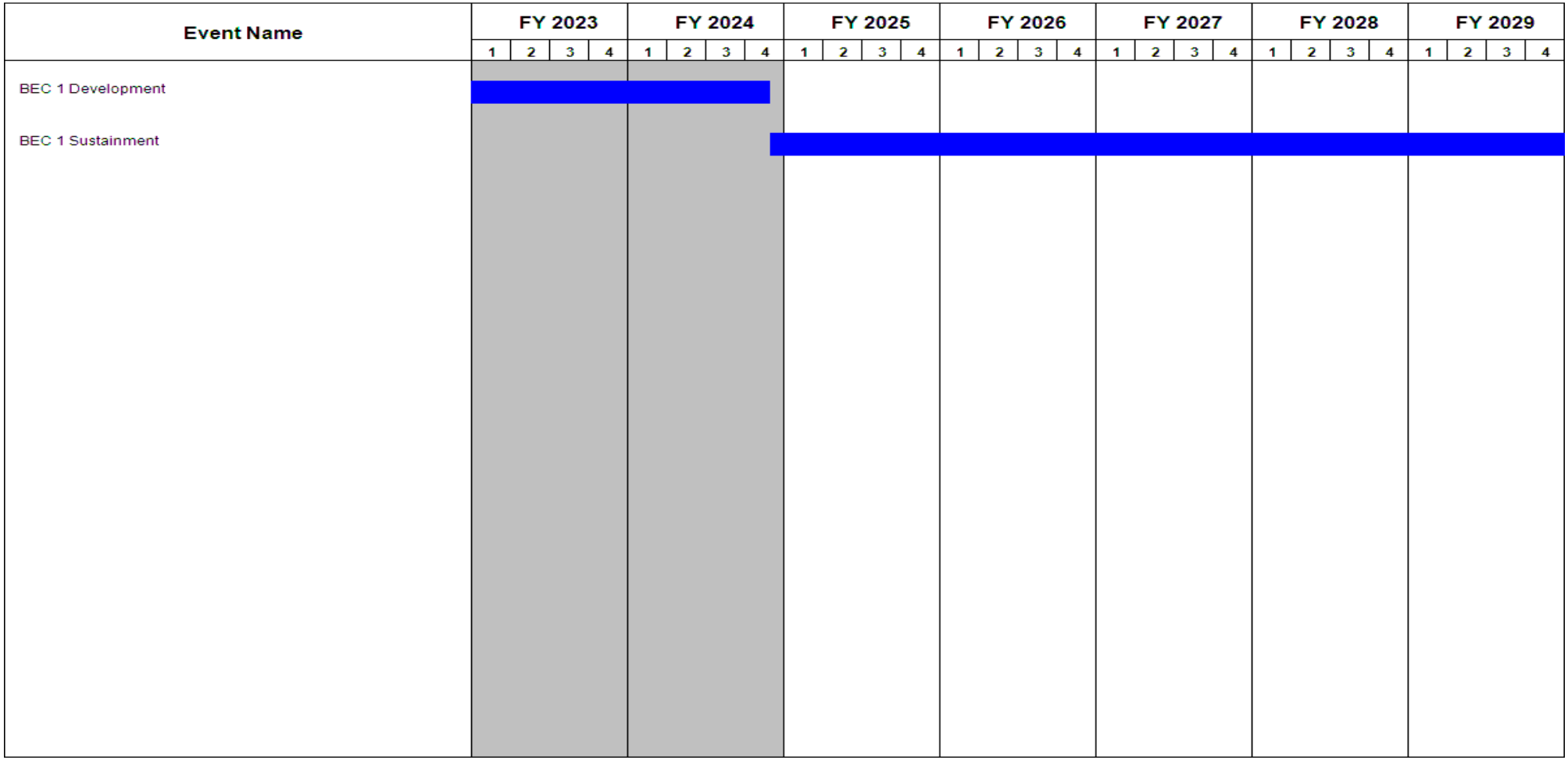


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605143A / *Biometrics Enabling Capability (BEC)*	**Project (Number/Name)** BX5 / *Biometrics Enabling Capability (BEC)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Initiate BEC 1 as a New Start in FY22	1	2022	1	2022
BEC 1 MS B	1	2022	1	2022
BEC 1 Contract Award	3	2022	3	2022
BEC 1 Development	4	2022	4	2024
BEC 1 Sustainment	4	2024	4	2033

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 0605144A / *Next Generation Load Device - Medium*							
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	-	24.094	36.970	2.931	-	2.931	2.345	2.370	2.397	2.420	0.000	73.527
BY6: *Key Management Infrastructure Development*	-	24.094	36.970	2.931	-	2.931	2.345	2.370	2.397	2.420	0.000	73.527

A. Mission Description and Budget Item Justification

This Program Element (PE) is a critical enabler of the Army Modernization Priorities in support of Army 2030/2040 and Communication Security (COMSEC).

This PE funds the development and test of the Next Generation Load Device - Medium (NGLD-M) to conduct the Army's key fill mission by issuing, filling, and managing Cryptographic keys to both legacy and future Key Management Infrastructure (KMI) aware End-Cryptographic Units (ECUs). This effort is an Acquisition Category III (ACAT III) Program of Record (POR). COMSEC is governed by the Chairman of the Joint Chiefs of Staff Instruction (CJCSA) 6510. In order to ensure Warfighters continue to have secured communications (i.e., encrypted data and voice), Army communications systems are required to support modern cryptographic capabilities by implementing modern algorithms. These efforts are consistent with Strategic Planning Guidance (SPG).

FY2025 funding supports the development of the NGLD-M program which replaces the legacy Simple Key Loader (SKL). NGLD-M adds capability of cryptographic re-programmability, over the network keying, and is compliant with NSA's Cryptographic Modernization 2 (CM2) algorithms. Funding supports the NGLD-M developmental effort for two vendors to develop and test their hardware and software solutions.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	22.439	36.970	1.609	-	1.609
Current President's Budget	24.094	36.970	2.931	-	2.931
Total Adjustments	1.655	0.000	1.322	-	1.322
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	1.655	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	1.322	-	1.322

Change Summary Explanation

Increase in FY 2025 is due to NGLD-M Development Test and Evaluation 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 0605144A / *Next Generation Load Device - Medium*	Project (Number/Name) BY6 / *Key Management Infrastructure 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
BY6: *Key Management Infrastructure Development*	-	24.094	36.970	2.931	-	2.931	2.345	2.370	2.397	2.420	0.000	73.527
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

As part of the Army's Key Management Infrastructure (KMI) implementation, the Next Generation Load Device - Medium (NGLD-M) is an Acquisition Category III (ACAT III) Program of Record (POR) and modernized load device that will replace legacy AN/PYQ-10A and AN/PYQ-10A(C) (Army), which is commonly referred to as the Simple Key Loader (SKL). The NGLD-M will receive, store, manage, and transfer electronic key through the network to be loaded into communication devices such as radios and satellites to secure the network. The NGLD-M requires RDT&E investment to develop and test the hardware and software solutions. Without this technology Warfighters are required to manually receive their cryptographic products by traveling to COMSEC account locations (which may not be co-located) and manually filling their devices.

FY2025 funding supports the NGLD-M developmental effort for two vendors to establish a developmental baseline and conduct developmental and operational testing of their hardware and software solutions.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: NGLD-M Development and NSA Certification	22.879	26.721	0.681
Description: The Next Generation Load Device - Medium (NGLD-M) will conduct the Army's key fill mission by issuing, filling, and managing Cryptographic keys to both legacy and future KMI aware End-Cryptographic Units (ECUs). This technology requires RDT&E investment to meet the requirements outlined in the NGLD Capability Production Document (CPD).			
FY 2024 Plans: Continue NGLD-M development and testing to obtain NSA Certification for both vendors. Security Verification Test (SVT) and Physical Configuration Audits (PCA) will be used with both vendors to verify that products meet cryptographic and protective alarms requirements and specifications IAW NSA IASRD.			
FY 2025 Plans: Complete NGLD-M development and testing to obtain NSA Certification for both vendors. Security Verification Test (SVT) and Physical Configuration Audits (PCA) will be used with both vendors to verify that products meet cryptographic and protective alarms requirements and specifications IAW NSA IASRD.			
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 0605144A / *Next Generation Load Device - Medium*	**Project (Number/Name)** BY6 / *Key Management Infrastructure Development*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
The decrease is due to NGLD-M Development and NSA Certification entering into the production phase.			
Title: Program Management Support ***Description:*** This funds matrixed support from Combat Capabilities Development Command (CCDC) Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Center to assist with the NGLD-M development effort. ***FY 2024 Plans:*** FY 2024 funds matrixed support to include Acquisition Program Manager (APM), and Software Engineer Program Management support from Combat Capabilities Development Command (CCDC) Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Center to assist with the NGLD-M development effort. ***FY 2025 Plans:*** FY 2025 funds matrixed support to include partial funding for Acquisition Program Manager (APM), and Software Engineer Program Management support from Combat Capabilities Development Command (CCDC) Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Center to assist with the NGLD-M development effort. Remaining funds required for support will be paid with procurement funds. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease is due to the NGLD-M Program Management Support activities entering into the production phase.	0.490	2.510	0.108
Title: Developmental Test & Evaluation Support ***Description:*** NGLD-M developmental test and evaluation support efforts. ***FY 2024 Plans:*** FY 2024 funds developmental test and evaluation support efforts to include End Cryptographic Unit (ECU) interoperability testing, environmental testing, Telecommunications Electronics Materials Protected from Emanating Spurious Transmissions (TEMPEST), and NSA Testing. ***FY 2025 Plans:*** FY 2025 funds developmental test and evaluation support efforts to include any follow-on testing or assessments post IOTR&E. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease is due to NGLD-M activities entering into the production phase, so FY25 Test and Evaluation Support cost consists of any follow-on testing or assessments post IOT&E.	0.725	7.739	2.142
Accomplishments/Planned Programs Subtotals	24.094	36.970	2.931

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 0605144A / *Next Generation Load Device - Medium*	**Project (Number/Name)** BY6 / *Key Management Infrastructure Development*

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
• 0303140A: *Information Systems Security Program*	15.554	15.323	15.733	-	15.733	15.755	15.843	15.936	16.019	Continuing	Continuing
• B96004: *KEY MANAGEMENT INFRASTRUCTURE*	75.541	72.289	31.585	-	31.585	31.760	28.753	24.097	24.337	0.000	288.362
• B96016: *NEXT GENERATION LOAD DEVICE- MEDIUM*	-	-	59.395	-	59.395	59.689	62.664	66.671	67.336	Continuing	Continuing

Remarks

D. Acquisition Strategy

Aspects of the Next Generation Load Device - Medium (NGLD-M) may include commercially availability solutions and/or interfaces, but development is required to integrate these solutions into a device that meets the rigors of NSA certification and the Capability Production Document (CPD) requirements. There is no commercially driven market for NSA certified load devices that meet the requirements identified in the NGLD Family CPD. The NGLD-M Acquisition Strategy supports a multiple award contract strategy for development, production, and sustainment. These requirements ensure secure communications by requiring the NGLD-M to provide specific tamper protections, limit electromagnetic radiation to prevent adversarial detection of the system, among others outlined within the Information Assurance Security Requirements Document. The Milestone Decision Authority issued a Materiel Development Decision (MDD) Acquisition Decision Memorandum (ADM) on 14 March 2019 that designated the NGLD-M as an ACAT III Program of Record (PoR).

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 0605144A / *Next Generation Load Device - Medium*	Project (Number/Name) BY6 / *Key Management Infrastructure 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
Program Management Support	C/CPFF	CCDC C5ISR S&TCD : APG, MD	1.155	0.490	Apr 2023	2.510	Feb 2024	0.108	Feb 2025	-		0.108	Continuing	Continuing	-
		Subtotal	1.155	0.490		2.510		0.108		-		0.108	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
NGLD-M Development	C/CPFF	CCDC C5ISR S&TCD, NIWC-Pacific : APG, MD; San Diego, CA	13.680	22.879	Apr 2023	26.721	Feb 2024	0.681	Feb 2025	-		0.681	Continuing	Continuing	-
		Subtotal	13.680	22.879		26.721		0.681		-		0.681	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	C/CPFF	CCDC C5ISR S&TCD : APG, MD	-	0.725	Apr 2023	7.739	Feb 2024	2.142	Feb 2025	-		2.142	Continuing	Continuing	-
		Subtotal	-	0.725		7.739		2.142		-		2.142	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	14.835	24.094		36.970		2.931		-		2.931	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 0605144A / *Next Generation Load Device - Medium*	**Project (Number/Name)** BY6 / *Key Management Infrastructure Development*

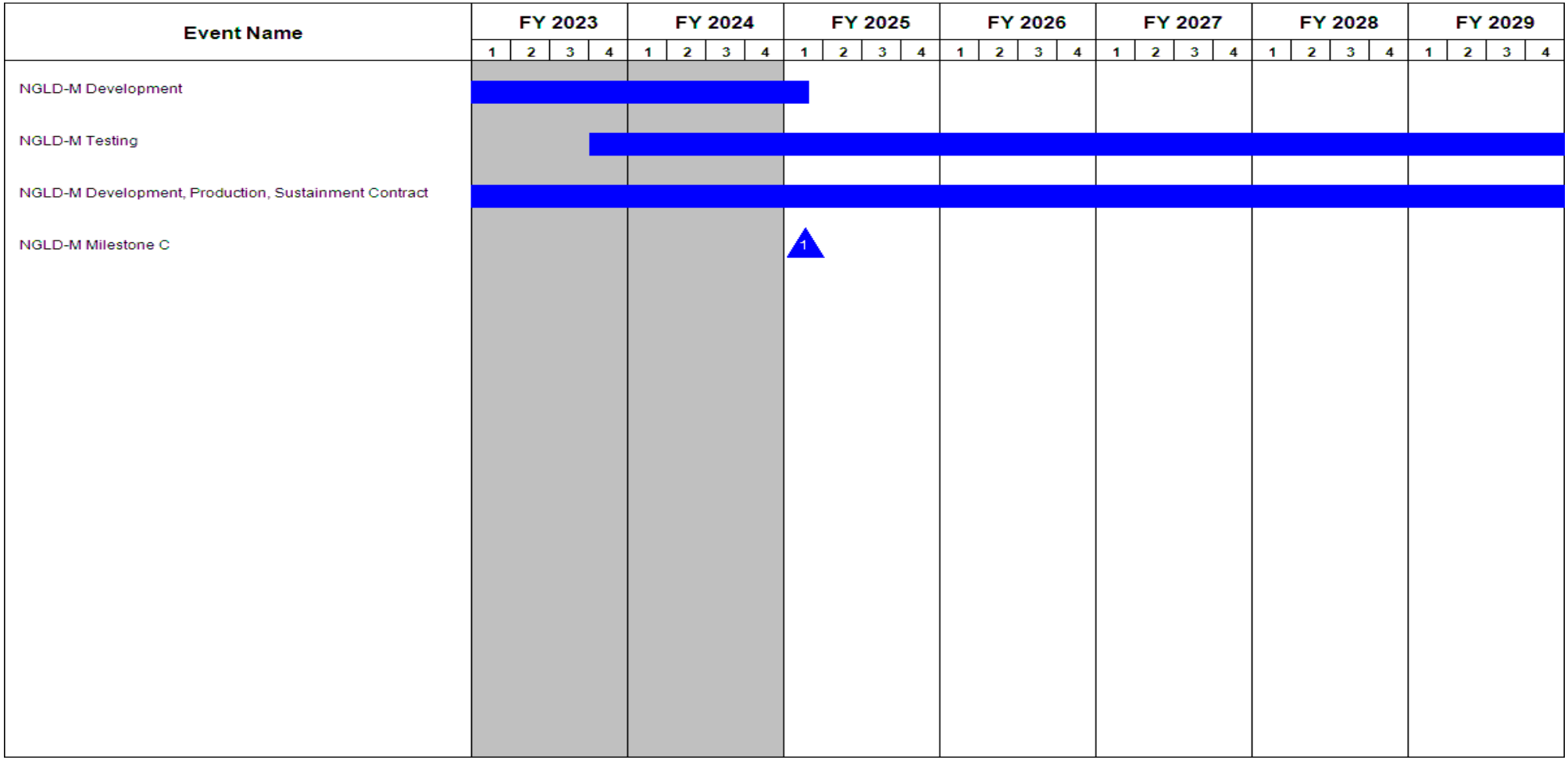


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605144A / *Next Generation Load Device - Medium*	**Project (Number/Name)** BY6 / *Key Management Infrastructure Development*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
NGLD-M Development	4	2021	1	2025
NGLD-M Testing	4	2023	2	2031
NGLD-M Development, Production, Sustainment Contract	4	2021	4	2035
NGLD-M Milestone C	1	2025	1	2025

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 0605148A / *Tactical Intel Targeting Access Node (TITAN) 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	-	103.987	132.136	157.036	-	157.036	48.739	35.961	39.605	40.001	Continuing	Continuing
BY5: *Tactical Intelligence Targeting Access Node EMD*	-	103.987	132.136	157.036	-	157.036	48.739	35.961	39.605	40.001	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Tactical Intelligence Targeting Access Node (TITAN) is a key enabler of the Army Modernization Priorities in support of Army Cross Functional Teams. TITAN is a scalable and expeditionary intelligence ground station that supports commanders across the entire Multi-Domain Operations (MDO)/Joint All Domain Operations (JADO) battlefield framework with capabilities tailored to echelon. TITAN leverages Space, High Altitude, Aerial and Terrestrial layer sensors to provide targetable data to fires networks as well as multi-discipline intelligence support to targeting and Situation Awareness/Situation Understanding (SA/SU) in support of mission command. TITAN will initiate development and prototyping of Artificial Intelligence/Machine Learning (AI/ML) platforms (i.e., Project Linchpin) and leverage Critical Radio Frequency (RF) technologies as they become available.

TITAN is the future Army Intelligence, Surveillance, and Reconnaissance (ISR) ground station that will consolidate the sensor processing capabilities in the current Distributed Common Ground System-Army (DCGS-A) Operational-Intelligence Ground Station (OGS), Tactical-Intelligence Ground Station (TGS), the Advanced Miniaturized Data Acquisition System Dissemination Vehicle (ADV) and the Remote Ground Terminal (RGT). Additionally, TITAN will have access to sensor data of the future Tactical Space Layer assets, National assets, the Multi-Domain Sensing Systems (MDSS) as well as commercial overhead sensors. Consequently, the TITAN ground station will be able to conduct deep sensing operations with the abilities to Task, Collect, Process, Exploit, and Disseminate (TCPED) information from Space, High Altitude, Aerial, and Terrestrial Layer sensors in support of Long Range Precision Fires (LRPF) operations.

The total cost of the TITAN Middle Tier of Acquisition effort is $489.7 million RDTE (including funds in PE 0604037A) from FY22 to FY26.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	108.987	132.136	160.716	-	160.716
Current President's Budget	103.987	132.136	157.036	-	157.036
Total Adjustments	-5.000	0.000	-3.680	-	-3.680
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-5.000	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-3.680	-	-3.680

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 0605148A *I Tactical Intel Targeting Access Node (TITAN) EMD*

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 0605148A / *Tactical Intel Targeting Access Node (TITAN) EMD*	Project (Number/Name) BY5 / *Tactical Intelligence Targeting Access Node 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
BY5: *Tactical Intelligence Targeting Access Node EMD*	-	103.987	132.136	157.036	-	157.036	48.739	35.961	39.605	40.001	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

TITAN directly addresses the U.S. Army Combined Arms Center's (USACAC) Multi-Domain Operations (MDO) gap #1: Lack of echelons above corps (EAC) multi-domain deep sensing, analysis, and processing, exploitation and dissemination (PED) for indications & warning (I&W) and anti-access/area denial (A2/AD) targeting. Furthermore, TITAN indirectly addresses MDO Gap 2: No theater detect, decide, deliver, assess (D3A) and convergence of Long Range Precision Fires (LRPF) to disintegrate A2/AD and MDO Gap #3: Lack of EAC LRPF capacity to dis-integrate A2/AD and shape the deep fight. TITAN supports these MDO gaps by providing the sensor data receipt and control, analysis, exploitation, and dissemination functions needed to enable LRPF.

The FY25 RDTE Dollars in the amount of $156.721M will fund the continued Development, Integration, and Testing of production-representative TITAN prototype systems. Funding will integrate high altitude, aerial and terrestrial sensor data feeds. Funding will integrate TENCAP-developed Space-Ground Component Kit (SGCK). Resources fund updates, integration, accreditation, & testing of new capabilities resulting from new sensor feeds and emerging technologies. Support includes Developmental and Soldier touchpoints to test-fix-test capabilities. Funding will also provide for the development and prototyping of the Artificial Intelligence/ Machine Learning Operations Platform (Project Linchpin).

The total cost of the TITAN Middle Tier of Acquisition effort is $489.7 million RDTE (including funds in PE 0604037A) from FY22 to FY26.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Project Management	9.263	11.182	11.414
Description: Funds needed to execute system development and integration activities, deliver acquisition and logistics documentation, perform system cyber security, accreditation and Human Systems Integration (HSI) efforts.			
FY 2024 Plans: Funds program support for Development and Integration of up to three TITAN production representative prototype systems. Funds updates, integration, and accreditation of capabilities for sensor processing, exploitation and dissemination in support of targeting.			
FY 2025 Plans: Continues to fund program support for Development and Integration of TITAN production representative prototype systems. Funds updates, integration, and accreditation of capabilities for sensor processing, exploitation and dissemination in support of targeting.			
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 0605148A / *Tactical Intel Targeting Access Node (TITAN) EMD*	**Project (Number/Name)** BY5 / *Tactical Intelligence Targeting Access Node EMD*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Increase reflects planned lifecycle of the effort.			
Title: System Development and Integration ***Description:*** Funds development and integration activities of production-representative TITAN prototype systems. Integrates system SW baseline and HW system architecture and interfaces. Integrates high altitude, aerial and terrestrial data feeds onto TITAN platform. Integration of TENCAP's SGCK to allow access to commercial, National and Tactical Space Layer capabilities. ***FY 2024 Plans:*** Funds continued Development and Integration for a total of three production-representative TITAN prototype systems. Integrates high altitude, aerial and terrestrial sensor data feeds. Integrates space ground component kit. Funds updates, integration, and accreditation of new capabilities resulting from new sensor feeds and emerging technologies. ***FY 2025 Plans:*** Funds continued Development and Integration of production-representative TITAN prototype systems. Integrates high altitude, aerial and terrestrial sensor data feeds. Integrates space ground component kit. Funds updates, integration, and accreditation of new capabilities resulting from new sensor feeds and emerging technologies. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Cost element increase attributed to TITAN prototyping requirements during the Prototype Maturation Phase	53.825	34.233	35.625
Title: Test Activities ***Description:*** Supports Developmental and Operational Testing activities for production-representative TITAN prototype systems in support of system production decision. Funds all T&E events required by Army Test Community, including multiple soldier touch points. ***FY 2024 Plans:*** Funds continued Technical and Developmental Testing (TT/DT) of TITAN Advanced and adding testing of Basic prototype systems. (Cooperative Vulnerability Identification, Adversarial Cybersecurity Developmental Test, Electromagnetic Interference/ Electromagnetic Compatibility (EMI/EMC) TEMPEST and Environmental Testing) ***FY 2025 Plans:*** Funds continued Technical and Developmental Testing (TT/DT) of TITAN Advanced and adding testing of Basic prototype systems. (Cooperative Vulnerability Identification, Adversarial Cybersecurity Developmental Test, Electromagnetic Interference/ Electromagnetic Compatibility (EMI/EMC) TEMPEST and Environmental Testing) ***FY 2024 to FY 2025 Increase/Decrease Statement:***	5.724	9.060	9.948

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 0605148A / *Tactical Intel Targeting Access Node (TITAN) EMD*	**Project (Number/Name)** BY5 / *Tactical Intelligence Targeting Access Node EMD*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Increase reflects planned lifecycle of the effort and continued technical and developmental testing.			
Title: TITAN Advanced - Prototype ***Description:*** Funds hardware and software associated with the development of the Advanced TITAN Variant throughout the Prototype Maturation Phase. ***FY 2024 Plans:*** Funds hardware and software associated with the development of one Advanced TITAN Variant throughout the Prototype Maturation Phase. ***FY 2025 Plans:*** Continues to fund hardware and software associated with the development of Advanced TITAN Variants throughout the Prototype Maturation Phase. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Cost element increase attributed to TITAN Prototyping requirements during the Prototype Maturation Phase.	25.731	31.635	48.937
Title: TITAN Basic - Prototype ***Description:*** Funds hardware and software associated the development of Basic TITAN Variants throughout the Prototype Maturation Phase. ***FY 2024 Plans:*** Funds hardware and software associated the development of two Basic TITAN Variants throughout the Prototype Maturation Phase. ***FY 2025 Plans:*** Continues to fund hardware and software associated the development of Basic TITAN Variants throughout the Prototype Maturation Phase. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase reflects planned lifecycle of the effort.	9.444	20.295	23.329
Title: Support to Initial Prototypes ***Description:*** Funds support requirements and activities associated with TITAN prototypes during Rapid Prototyping to included New Equipment Training, SW Licensing, initial prototype spares and repair parts, contractor logistics support, etc. ***FY 2024 Plans:***	-	20.518	22.570

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 0605148A / *Tactical Intel Targeting Access Node (TITAN) EMD*	**Project (Number/Name)** BY5 / *Tactical Intelligence Targeting Access Node EMD*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Funds support requirements and activities associated with TITAN prototypes during Rapid Prototyping to included New Equipment Training, SW Licensing, initial prototype spares and repair parts, contractor logistics support, etc. ***FY 2025 Plans:*** Continues to fund support requirements and activities associated with TITAN prototypes during Rapid Prototyping to included New Equipment Training, SW Licensing, initial prototype spares and repair parts, contractor logistics support, etc. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Cost element increase attributed to increased Initial Spare acquisition to support TITAN Prototyping requirements during the Prototype Maturation Phase.			
Title: Development and Prototyping of Artificial Intelligence/ Machine Learning Operations Platform ***Description:*** Fund initial establishment of secure and trusted MLOPS environment for rapid and continuous delivery of AI/ML models optimized to work on various configurations. Fund maturation of existing technology that needs minor enhancements to meet Army needs. This includes AI/ML algorithms that will transition to TITAN from various programs across the DoD and IC and need to be tuned for Army use cases. ***FY 2024 Plans:*** Fund initial prototyping activity, industry days and market research for the establishment of secure and trusted MLOPS environment for rapid and continuous delivery of AI/ML models optimized to support multiple operational environments. ***FY 2025 Plans:*** Continues to fund prototyping activity, industry days and market research for the establishment of secure and trusted MLOPS environment for rapid and continuous delivery of AI/ML models optimized to support multiple operational environments.	-	5.213	5.213
Accomplishments/Planned Programs Subtotals	103.987	132.136	157.036

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
• BY4: *Tactical Intelligence Targeting Access Node*	0.863	10.626	4.317	-	4.317	4.129	4.107	4.153	4.194	0.000	32.389
• K57311: *TITAN GROUND STATION*	-	-	0.000	-	0.000	262.448	216.673	328.297	331.574	0.000	1,138.992

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 0605148A / *Tactical Intel Targeting Access Node (TITAN) EMD*	**Project (Number/Name)** BY5 / *Tactical Intelligence Targeting Access Node EMD*

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

0604037A BY4 supports efforts for Critical Radio Frequency (RF) technologies; and to integrate Space-Based Intelligence, Surveillance, and Reconnaissance (ISR) capabilities into the TITAN Program of Record (PoR).

D. Acquisition Strategy

The TITAN program acquisition strategy is to leverage Middle-Tier of Acquisition (MTA) for Rapid Prototyping (RP). This strategy allows the program to rapidly develop and field a capability that addresses gaps for multi-domain operations. TITAN's MTA RP approval in 3QFY22 was based on an Abbreviated CDD (A-CDD) with an Army Requirements Oversight Council (AROC) decision, which was approved in 1QFY22. The capabilities will be refined through soldier touchpoints and demonstrations/ exercises and inform final TITAN requirements and Concept of Operations (CONOPS). Demonstrating the objective capability in an operational environment will inform a decision point to transition to an MTA Rapid Fielding (RF) effort or tailored Milestone C (MS C) for production. TITAN's open-system architecture approach ensures the system will be tailorable and scalable, with the ability to provide increased intelligence capabilities, additional sensor data and processing throughput over time to keep pace with new technology and changing threat.

An Other Transaction Authority (OTA) contract was awarded under the 10 U.S.C. 2371b and the 2016 National Defense Authorization Act (NDAA), Section 815, for TITAN Rapid Prototyping. This innovative approach enables acceleration of the TITAN Ground Station capabilities to the Warfighter. The TITAN OTA approach is a multi-phased contract vehicle designed to scope each phase separately based on maturing requirements and informed by risk reduction efforts in prior phases. The initial phase, Ground Station Modernization, was competitive risk-reduction effort between two vendors to build system-level designs and mature a Software (SW) baseline. The Competitive Prototyping Phase (CPP) was awarded in 3QFY22 and is focused on competitive prototyping between both vendors. The CPP includes further SW baseline refinement to ensure functionality and then begin Hardware (HW) integration within a shelter and on a representative vehicle platform for the Advanced variant. At the conclusion of Competitive Prototyping, both vendors will be evaluated against technical feasibility and ability to meet TITAN requirements, which will inform up-select to one vendor. The selected vendor will move on to the final prototyping phase, Prototype maturation, which includes increasing capability of their prototypes to inform final TITAN requirements and support transition decision out MTA RP to MTA RF or MS C. Multiple Soldier Touchpoints and demonstration of capability in the operational force, to ensure usability and inform requirements and CONOPS, will highlight the OTA phases for Rapid Prototyping. The TITAN program includes two variants, Advanced and Basic, with Advanced featuring direct downlink (DDL) access to space data and enhanced storage capabilities, and Basic tailored for lower echelons and more expeditionary. Future FAR-based contracts will support both production 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 0605148A / *Tactical Intel Targeting Access Node (TITAN) EMD*	**Project (Number/Name)** BY5 / *Tactical Intelligence Targeting Access Node EMD*

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	C/FP	Various : APG and Contractor Facility	4.872	9.263	Jan 2023	11.182	Jan 2024	11.414	Dec 2024	-		11.414	Continuing	Continuing	Continuing
		Subtotal	4.872	9.263		11.182		11.414		-		11.414	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
System Development and Integration	C/FP	Various : APG, YPG, JBLM, Ft Cavazos, Ft. Liberty, CTR FAC	46.243	53.825	Jan 2023	34.233	Jan 2024	35.625	Jan 2025	-		35.625	Continuing	Continuing	Continuing
TITAN Advanced - Prototype	C/FP	TBD : APG, YPG, JBLM, Ft Cavazos, Ft. Liberty, CTR FAC	-	28.675	Apr 2023	31.635	Nov 2023	48.937	Jan 2025	-		48.937	Continuing	Continuing	Continuing
TITAN Basic - Prototype	C/FP	TBD : APG, YPG, JBLM, Ft Cavazos, Ft. Liberty, CTR FAC	-	6.500	Apr 2023	20.295	Nov 2023	23.329	Jan 2025	-		23.329	Continuing	Continuing	Continuing
Support to Prototypes	C/Various	TBD : APG, YPG, JBLM, Ft Cavazos, Ft. Liberty, CTR FAC	-	-		20.518	Jan 2024	22.570	Jan 2025	-		22.570	Continuing	Continuing	Continuing
Development and Prototyping of Artificial Intelligence/ Machine Learning Operations Platform	C/CPFF	TBD : APG, CTR FAC	-	-		5.213	Jan 2024	5.213	Jan 2025	-		5.213	Continuing	Continuing	Continuing
		Subtotal	46.243	89.000		111.894		135.674		-		135.674	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 0605148A / *Tactical Intel Targeting Access Node (TITAN) EMD*	Project (Number/Name) BY5 / *Tactical Intelligence Targeting Access Node EMD*	

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 Activities	MIPR	Various : APG, YPG, WSMR, Ft Cavazos, Ft. Liberty, (OT TBD)	3.857	5.724	Jan 2023	9.060	Jan 2024	9.948	Feb 2025	-		9.948	Continuing	Continuing	Continuing
		Subtotal	3.857	5.724		9.060		9.948		-		9.948	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	54.972	103.987		132.136		157.036		-		157.036	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 0605148A / *Tactical Intel Targeting Access Node (TITAN) EMD*	**Project (Number/Name)** BY5 / *Tactical Intelligence Targeting Access Node EMD*

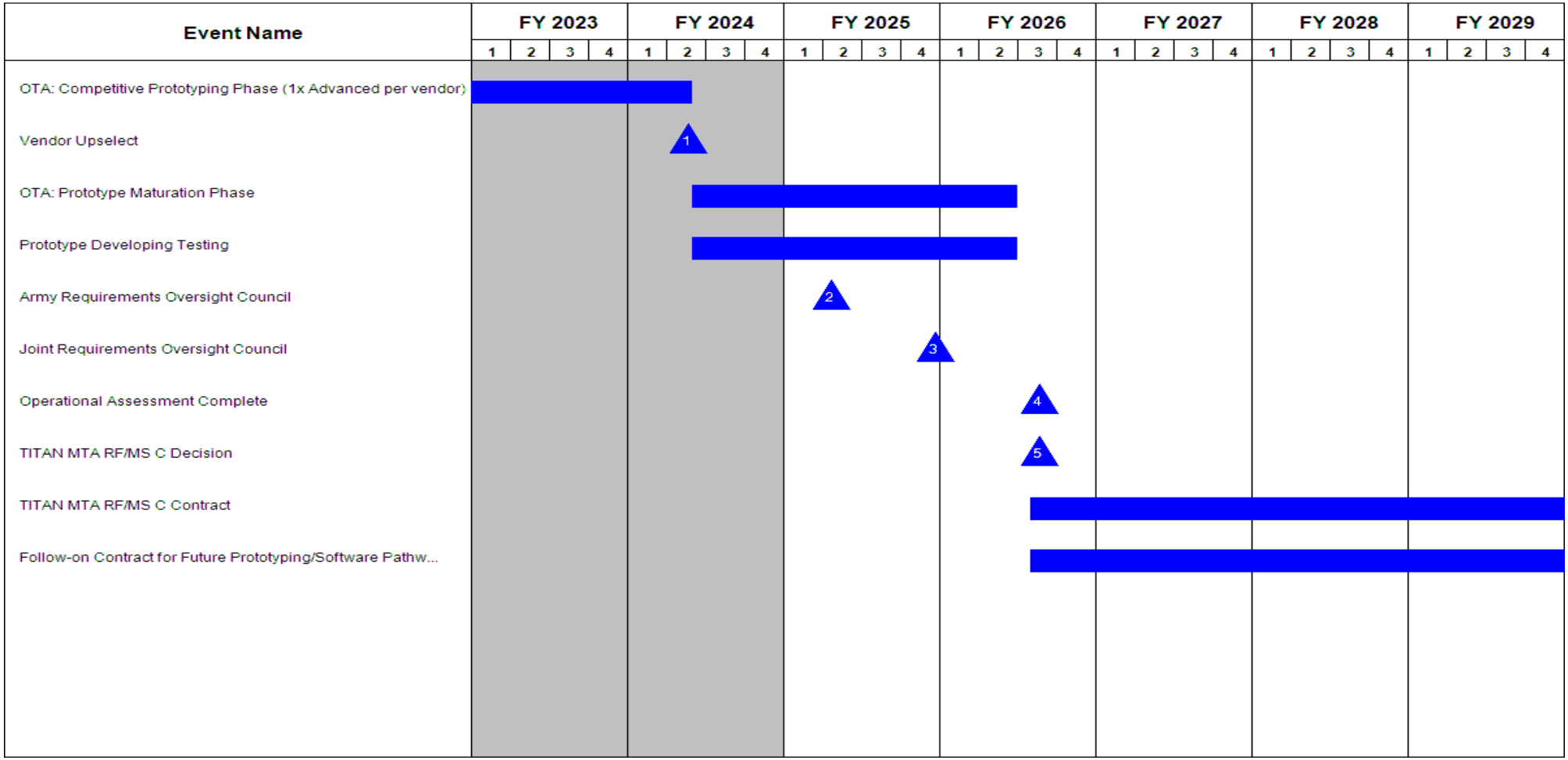


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605148A / *Tactical Intel Targeting Access Node (TITAN) EMD*	**Project (Number/Name)** BY5 / *Tactical Intelligence Targeting Access Node EMD*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
MDD	2	2020	2	2020
Analysis of Alternatives	3	2020	1	2021
AoA SAG	1	2021	1	2021
AROC	1	2022	1	2022
OTA Phase 1: Modernization	1	2021	1	2022
Phase 1 Technology Demonstrations/Design Reviews	1	2021	1	2022
MTA: Rapid Prototyping Decision Point	3	2022	3	2022
OTA: Competitive Prototyping Phase (1x Advanced per vendor)	3	2022	2	2024
Vendor Upselect	2	2024	2	2024
OTA: Prototype Maturation Phase	2	2024	2	2026
Prototype Developing Testing	2	2024	2	2026
Army Requirements Oversight Council	2	2025	2	2025
Joint Requirements Oversight Council	4	2025	4	2025
Operational Assessment Complete	3	2026	3	2026
TITAN MTA RF/MS C Decision	3	2026	3	2026
TITAN MTA RF/MS C Contract	3	2026	1	2034
Follow-on Contract for Future Prototyping/Software Pathways (R&D)	3	2026	1	2034

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 0605203A / *Army System Development & Demonstration*							
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	143.616	81.657	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	225.273
BR3: *Army System Development & Demonstration*	-	143.616	81.657	-	-	-	-	-	-	-	0.000	225.273

A. Mission Description and Budget Item Justification

The Army System Development & Demonstration budget line includes multiple efforts across the Army's Battlefield Operational Systems necessary to support projects in engineering and manufacturing development for use on programs that have not received approval for full-rate. System performance is near or at planned operational system levels.

Projects are characterized by mature system development, integration, demonstration to support Milestone C decisions, conducting live fire test and evaluation, and initial operational test and evaluation of production representative articles.

Selected programs within this budget line will exhibit a logical progression of program phases, development and production funding within the FYDP, consistent with the Department's full funding policy.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	143.616	81.657	79.131	-	79.131
Current President's Budget	143.616	81.657	0.000	-	0.000
Total Adjustments	0.000	0.000	-79.131	-	-79.131
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-79.131	-	-79.131

Change Summary Explanation

Funding decrease due to budget line item restructure.

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 0605205A *I Small Unmanned Aerial Vehicle (SUAV) (6.5)*

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	-	6.292	31.284	37.876	-	37.876	34.788	13.733	13.771	13.908	Continuing	Continuing
BR7: *Small Unmanned Aircraft System (6.5)*	-	6.292	31.284	37.876	-	37.876	34.788	13.733	13.771	13.908	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Rucksack Portable Uncrewed Aircraft System (RPUAS) Family of Small Uncrewed Aircraft System (FoSUAS) requirements are transitioning to the Joint Small Uncrewed Aircraft System sUAS Capability Development Document (J-sUAS CDD) to solve current and emergent operational gaps. These systems provide battalion and below ground maneuver elements with critical situational awareness and enhanced force protection. The system provides an organic and responsive reconnaissance and targeting capability with real-time Full Motion Video and sensor data which is also available to inter-operable digital data linked systems, such as the One System Remote Video Terminal and manned platforms. The RPUAS FoSUAS includes the Short Range Reconnaissance (SRR), the Medium Range Reconnaissance (MRR), and the Long Range Reconnaissance (LRR). Each system includes aircraft, ground control equipment, handheld ground control station and Robotics Autonomous Command and Control (RAC2) software.

The Short-Range Reconnaissance (SRR) capability utilizes RQ-28A SRR for first generation fielding which provides platoons 30 minute flight endurance, 3 km operational range, an EO/IR Payload, and sub 3 lb target weight. SRR is currently prototyping the second generation air vehicle FY2022-FY2025 which offers modular payloads, day & night obstacle avoidance, target recognition & automated following, and common software which will be used across all Group I and II UAS.

Long Range Reconnaissance (LRR) System will provide organic maneuver battalions an uncrewed air vehicle designed to support Reconnaissance, Surveillance, and Target Acquisition (RSTA) efforts. The system will have an aircraft weight of less than 55 lbs, a range of 30-60 km and endurance of 5-8 hours. System will include Assured Positioning, Navigation and Timing (APNT), data links to optimize the modular mission payloads (Electro-Optical/Infra-Red (EO/IR), laser targeting/designating) and kinetic architectures in a contested environment.

The Joint Tactical Autonomous Aerial Resupply System (JTAARS) is an autonomous aerial cargo delivery system, organic to the maneuver commander, that will provide options for rapid and agile sustainment of highly mobile tactical combat forces, operating in a widely dispersed manner in the tactical support and close areas. JTAARS will enable maneuver by reducing the tactical force's dependence on ground lines of communication and sustainment, reducing threats to manned convoys and manned aerial systems, lightening Soldier load, and shrinking the supply chain. JTAARS will provide a lift capability of 125 lbs over 13 km one way (26 km round trip).

The total cost of the SRR Middle Tier of Acquisition effort is $28.2 million of RDTE from FY2020 to FY2025. The SRR program is fully funded across the Future Years Defense Program.

Justification: FY2025 RDTE Base funding of $37.876 million for SRR, LRR, and JTAARS.

SRR Tranche 2 funding will be used for system integration, testing and evaluation.

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 0605205A *I Small Unmanned Aerial Vehicle (SUAV) (6.5)*

LRR funding will be used for system development and test of critical components such as APNT, Type 1 encryption, and ECCM survivability. Funding will also be utilized for integration of modular mission payloads (communication relay, electronic warfare payloads and lethal munitions payloads) and Uncrewed Vehicle Control (UVC) software.

FY2025 is the first year of allocation of BA 5 funding for JTAARS. JTAARS funding in FY2025 to develop technical data, finalization of assessment tasks, evaluation and resolution of technology gaps, UVC software integration, range and battery power improvements, and C5ISR/EW Modular Open Suite of Standards (CMOSS) compliance.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	6.530	31.284	24.542	-	24.542
Current President's Budget	6.292	31.284	37.876	-	37.876
Total Adjustments	-0.238	0.000	13.334	-	13.334
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.238	-			
• Adjustments to Budget Years	-	-	13.334	-	13.334

Change Summary Explanation

The increased funding in the amount of $13.334 million supports planned JTAARS demonstration and experimentation ($13.285 million) and revised economic assumptions for SRR ($0.005 million) and LRR ($0.044 million).

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 0605205A / *Small Unmanned Aerial Vehicle (SUAV) (6.5)*	Project (Number/Name) BR7 / *Small Unmanned Aircraft System (6.5)*	

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
BR7: *Small Unmanned Aircraft System (6.5)*	-	6.292	31.284	37.876	-	37.876	34.788	13.733	13.771	13.908	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Rucksack Portable Uncrewed Aircraft System (RPUAS) Family of Small Uncrewed Aircraft System (FoSUAS) requirements are transitioning to the Joint Small Uncrewed Aircraft System sUAS Capability Development Document (J-sUAS CDD) to solve current and emergent operational gaps. These systems provide battalion and below ground maneuver elements with critical situational awareness and enhanced force protection. The system provides an organic and responsive reconnaissance and targeting capability with real-time Full Motion Video and sensor data which is also available to inter-operable digital data linked systems, such as the One System Remote Video Terminal and manned platforms. The RPUAS FoSUAS includes the Short Range Reconnaissance (SRR), the Medium Range Reconnaissance (MRR), and the Long Range Reconnaissance (LRR). Each system includes aircraft, ground control equipment, handheld ground control station and Robotics Autonomous Command and Control (RAC2) software.

The Short-Range Reconnaissance (SRR) capability utilizes RQ-28A SRR for first generation fielding which provides platoons 30 minute flight endurance, 3 km operational range, an EO/IR Payload, and sub 3 lb target weight. SRR is currently prototyping the second generation air vehicle FY2022-FY2025 which offers modular payloads, day & night obstacle avoidance, target recognition & automated following, and common software which will be used across all Group I and II UAS.

Long Range Reconnaissance (LRR) System will provide organic maneuver battalions an uncrewed air vehicle designed to support Reconnaissance, Surveillance, and Target Acquisition (RSTA) efforts. The system will have an aircraft weight of less than 55 lbs, a range of 30-60 km and endurance of 5-8 hours. System will include Assured Positioning, Navigation and Timing (APNT), data links to optimize the modular mission payloads (Electro-Optical/Infra-Red (EO/IR), laser targeting/designating) and kinetic architectures in a contested environment.

The Joint Tactical Autonomous Aerial Resupply System (JTAARS) is an autonomous aerial cargo delivery system, organic to the maneuver commander, that will provide options for rapid and agile sustainment of highly mobile tactical combat forces, operating in a widely dispersed manner in the tactical support and close areas. JTAARS will enable maneuver by reducing the tactical force's dependence on ground lines of communication and sustainment, reducing threats to manned convoys and manned aerial systems, lightening Soldier load, and shrinking the supply chain. JTAARS will provide a lift capability of 125 lbs over 13 km one way (26 km round trip).

The total cost of the SRR Middle Tier of Acquisition effort is $28.2 million of RDTE from FY2020 to FY2025. The SRR program is fully funded across the Future Years Defense Program.

Justification: FY2025 RDTE Base funding of $37.876 million for SRR, LRR, and JTAARS.

SRR Tranche 2 funding will be used for system integration, testing and evaluation.

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 0605205A / *Small Unmanned Aerial Vehicle (SUAV) (6.5)*	**Project (Number/Name)** BR7 / *Small Unmanned Aircraft System (6.5)*

LRR funding will be used for system development and test of critical components such as APNT, Type 1 encryption, and ECCM survivability. Funding will also be utilized for integration of modular mission payloads (communication relay, electronic warfare payloads and lethal munitions payloads) and Uncrewed Vehicle Control (UVC) software.

FY2025 is the first year of allocation of BA 5 funding for JTAARS. JTAARS funding in FY2025 to develop technical data, finalization of assessment tasks, evaluation and resolution of technology gaps, UVC software integration, range and battery power improvements, and C5ISR/EW Modular Open Suite of Standards (CMOSS) compliance.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Systems Engineering Program Management ***Description:*** Systems Engineering Program Management support for SRR development and demonstration efforts. ***FY 2024 Plans:*** Systems Engineering and Program Management support for SRR and LRR development and demonstration efforts. ***FY 2025 Plans:*** Systems Engineering and Program Management support for the completion of SRR Tranche 2 demonstration and testing, continuation of LRR demonstration and testing, and the initiation of JTAARS demonstration and testing efforts. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase is due to addition of JTAARS and increasing LRR requirements.	0.307	1.685	3.856
Title: SRR System Development and Integration ***Description:*** SRR Development Engineering efforts. ***FY 2024 Plans:*** Development and system integration of SRR air vehicle. ***FY 2025 Plans:*** Completion of the development and system integration of SRR air vehicle. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease is due to the completion of the SRR development and system integration effort in FY25.	3.720	5.355	0.439
Title: LRR System Development and Integration ***Description:*** LRR Development Engineering efforts.	-	19.545	20.330

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 0605205A / *Small Unmanned Aerial Vehicle (SUAV) (6.5)*	**Project (Number/Name)** BR7 / *Small Unmanned Aircraft System (6.5)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: Development and system integration of LRR air vehicle. ***FY 2025 Plans:*** Development and system integration of LRR air vehicle. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase due to planned air vehicle prototype integration.			
Title: JTAARS Demonstration and Experimentation ***Description:*** System procurement, ConOp validation, Technical data development. ***FY 2025 Plans:*** Develop technical data, finalization of assessment tasks, evaluation and resolution of technology gaps, UVC software integration, range and battery power improvements, and C5ISR/EW Modular Open Suite of Standards (CMOSS) compliance. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase is due to effort supporting JTAARS Demonstration and Experimentation.	-	-	12.752
Title: SRR Developmental Test and Evaluation ***Description:*** Test and Evaluation efforts for SRR System Development. ***FY 2024 Plans:*** Efforts to conduct testing and evaluation of mature SRR prototype system. ***FY 2025 Plans:*** Completion of testing and evaluation of mature SRR prototype system. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease is due to the completion of the testing of the mature SRR prototype system.	2.265	3.399	0.371
Title: LRR Development Test and Evaluation ***Description:*** Test and Evaluation efforts for LRR System Development. ***FY 2024 Plans:*** Efforts to conduct testing and evaluation of LRR prototype system. ***FY 2025 Plans:***	-	1.300	0.128

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 0605205A / *Small Unmanned Aerial Vehicle (SUAV) (6.5)*	**Project (Number/Name)** BR7 / *Small Unmanned Aircraft System (6.5)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Efforts to conduct testing and evaluation of LRR prototype system. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease due to completion of a majority of testing of prototypes.			
Accomplishments/Planned Programs Subtotals	6.292	31.284	37.876

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
• BR6: *Small Unmanned Aircraft System (6.4)*	1.373	5.144	1.800	-	1.800	1.803	1.822	1.843	1.861	0.000	15.646
• A12511: *SHORT RANGE RECONNAISSANCE*	6.725	20.769	69.573	-	69.573	20.591	20.575	20.533	20.739	Continuing	Continuing
• A12513: *LONG RANGE RECONNAISSANCE*	-	-	0.000	-	0.000	-	17.847	43.526	43.785	Continuing	Continuing

Remarks

D. Acquisition Strategy

The Short Range Reconnaissance utilizes Middle Tier Acquisition pathway for rapid prototyping. SRR Tranche 1 successfully transitioned to a Major Capability Acquisition pathway at Production Decision. The SRR Tranche 2 is in rapid prototyping and is anticipated to follow Tranche 1 by off-ramping into a Full Rate Production decision in FY2025.

The Long Range Reconnaissance completed an Acquisition Shaping Panel in fourth quarter FY2023. Prototypes will be evaluated from up to 4 vendors in 2 phases that include Soldier Touch Points and Technical evaluations. The final selected system will then undergo Developmental Testing (DT) that will include Engineering Flight Tests, Radio/Antenna Characterization, follow on SW/HW DT and cyber testing.

The Joint Tactical Autonomous Aerial Resupply System (JTAARS) also completed an Acquisition Shaping Panel in fourth quarter FY2023 with direction from the Shaping Panel to conduct the FY2024 JTAARS assessment. The results of the demonstration will be briefed in FY2025 to determine prototyping or 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 0605205A / *Small Unmanned Aerial Vehicle (SUAV) (6.5)*	Project (Number/Name) BR7 / *Small Unmanned Aircraft System (6.5)*	

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 (SEPM)	Various	Various : Various	0.723	0.307	Oct 2022	1.685	Oct 2023	3.856	Oct 2024	-		3.856	Continuing	Continuing	Continuing
		Subtotal	0.723	0.307		1.685		3.856		-		3.856	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
SRR Development Engineering	Various	ACC Redstone : Redstone Arsenal	5.303	3.720	Jan 2023	5.355	Jan 2024	0.439	Jan 2025	-		0.439	Continuing	Continuing	Continuing
LRR Development Engineering	Various	ACC Redstone : Redstone Arsenal, AL	-	-		19.545	Feb 2024	20.330	Feb 2025	-		20.330	Continuing	Continuing	Continuing
JTAARS Demonstration and Experimentation	TBD	TBD : TBD	-	-		-		12.752	Feb 2025	-		12.752	Continuing	Continuing	Continuing
		Subtotal	5.303	3.720		24.900		33.521		-		33.521	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
SRR Test and Evaluation	Various	ACC Redstone : Redstone Arsenal	1.946	2.265	Aug 2023	3.399	Aug 2024	0.371	Aug 2025	-		0.371	Continuing	Continuing	Continuing
LRR Test and Evaluation	Various	ACC Redstone : Redstone Arsenal, AL	-	-		1.300	May 2024	0.128	May 2025	-		0.128	Continuing	Continuing	Continuing
		Subtotal	1.946	2.265		4.699		0.499		-		0.499	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 0605205A / *Small Unmanned Aerial Vehicle (SUAV) (6.5)*	Project (Number/Name) BR7 / *Small Unmanned Aircraft System (6.5)*	

	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	7.972	6.292		31.284		37.876		-		37.876	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 0605205A / *Small Unmanned Aerial Vehicle (SUAV) (6.5)*	**Project (Number/Name)** BR7 / *Small Unmanned Aircraft System (6.5)*

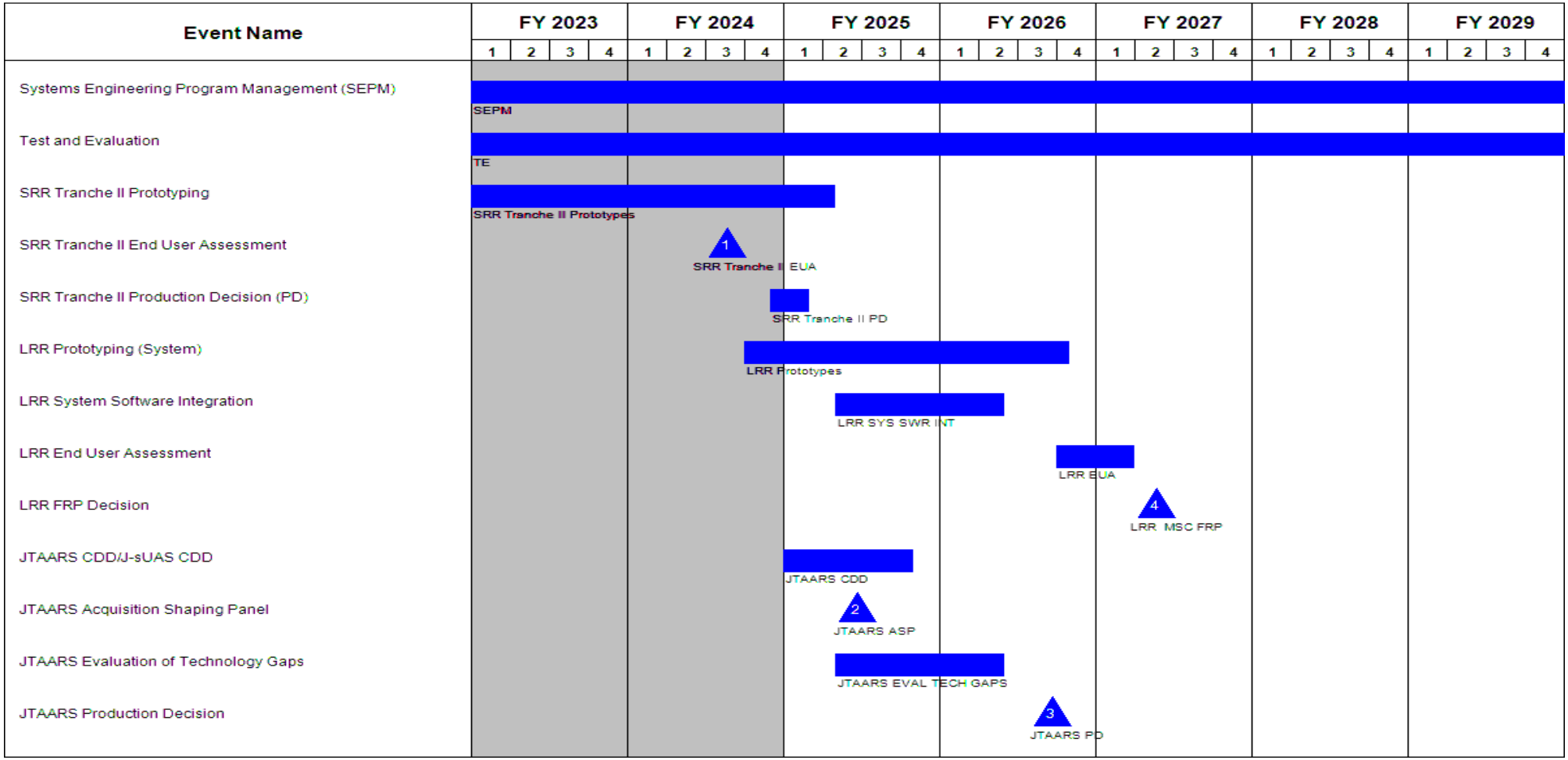


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605205A / *Small Unmanned Aerial Vehicle (SUAV) (6.5)*	**Project (Number/Name)** BR7 / *Small Unmanned Aircraft System (6.5)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Systems Engineering Program Management (SEPM)	2	2018	4	2030
Test and Evaluation	4	2018	4	2030
SRR Tranche I End User Assessment	4	2020	4	2020
SRR Tranche I Production Decision (PD)	1	2022	1	2022
SRR Tranche II Prototype OTA Award	2	2022	2	2022
SRR Tranche II Prototyping	2	2022	2	2025
SRR Tranche II End User Assessment	3	2024	3	2024
SRR Tranche II Production Decision (PD)	4	2024	1	2025
LRR Prototyping (System)	4	2024	4	2026
LRR System Software Integration	2	2025	2	2026
LRR End User Assessment	4	2026	1	2027
LRR FRP Decision	2	2027	2	2027
JTAARS CDD/J-sUAS CDD	1	2025	4	2025
JTAARS Acquisition Shaping Panel	2	2025	2	2025
JTAARS Evaluation of Technology Gaps	2	2025	2	2026
JTAARS Production Decision	3	2026	3	2026

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 0605206A *I CI and HUMINT Equipment Program-Army (CIHEP-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	-	-	2.170	1.296	-	1.296	2.400	2.417	2.166	2.166	0.000	12.615
DG3: *CI and HUMINT Equipment Program-Army (CIHEP-A)*	-	-	2.170	1.296	-	1.296	2.400	2.417	2.166	2.166	0.000	12.615

A. Mission Description and Budget Item Justification

The Counterintelligence (CI) / Human Intelligence (HUMINT) Equipment Program - Army (CIHEP-A) is a modernization program to provide CI and HUMINT collectors a full set of expeditionary capabilities to answer Commanders' intelligence requirements and protect the force. CIHEP-A is intended to be a scalable and modular equipping program which includes but is not limited to: Computing systems from the Joint common hardware Mounted Family of Computer Systems; Capability to connect to/utilize alternate sources of power; Communications package that provides Beyond Line of Sight systems; Mission support package that enables management of teams, and downward reinforcement of teams with advanced collection and security equipment; and Team support package that provides CI and HUMINT teams with required capabilities to conduct their respective functions.

Funding will support CIHEP-A.

In FY25, $1.296M of RDT&E will be used for overall system evaluation and testing as well as Program Office support to achieve a Milestone C for the CIHEP-A program.

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	2.170	0.000	-	0.000
Current President's Budget	0.000	2.170	1.296	-	1.296
Total Adjustments	0.000	0.000	1.296	-	1.296
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	1.296	-	1.296

Change Summary Explanation

Increase to support CIHEP-A program.

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 0605206A / *CI and HUMINT Equipment Program-Army (CIHEP-A)*	Project (Number/Name) DG3 / *CI and HUMINT Equipment Program-Army (CIHEP-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
DG3: *CI and HUMINT Equipment Program-Army (CIHEP-A)*	-	-	2.170	1.296	-	1.296	2.400	2.417	2.166	2.166	0.000	12.615
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

9 articles will be purchased in FY24 using RDT&E funds for testing CIHEP-A components. In FY25, it is anticipated that more articles will need to be purchased to complete testing and transition to LRIP.

A. Mission Description and Budget Item Justification

The Counterintelligence (CI) / Human Intelligence (HUMINT) Equipment Program - Army (CIHEP-A) is a modernization program to provide CI and HUMINT collectors a full set of expeditionary capabilities to answer Commanders' intelligence requirements and protect the force. CIHEP-A is intended to be a scalable and modular equipping program which includes but is not limited to: Computing systems from the Joint common hardware Mounted Family of Computer Systems; Capability to connect to/utilize alternate sources of power; Communications package that provides Beyond Line of Sight systems; Mission support package that enables management of teams, and downward reinforcement of teams with advanced collection and security equipment; and Team support package that provides CI and HUMINT teams with required capabilities to conduct their respective functions.

Funding will support CIHEP-A.

In FY25, $1.296M of RDT&E will be used for overall system evaluation and testing as well as Program Office support to achieve a Milestone C for the CIHEP-A program.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Equipment Acquistion / Integration, Soldier touchpoints, NET development and Program Management.	-	2.170	1.296
Description: Provides funding for acquisition of initial equipment packages to conduct soldier touchpoints, tactical network integration, and initiation of new equipment training (NET) development and program management.			
FY 2024 Plans: Acquisition of nine packages for tactical network integration, soldier touchpoints and development of new equipment training			
FY 2025 Plans: Funding will support CIHEP-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 0605206A / *CI and HUMINT Equipment Program-Army (CIHEP-A)*	**Project (Number/Name)** DG3 / *CI and HUMINT Equipment Program-Army (CIHEP-A)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
In FY25, $1.296M of RDT&E will be used for overall system evaluation and testing as well as Program Office support to achieve a Milestone C for the CIHEP-A program. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease in funding based on overall reduction of system evaluation and testing in the CIHEP-A program.			
Accomplishments/Planned Programs Subtotals	-	2.170	1.296

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
• B75200: *CI AND HUMINT INTELLIGENCE (HUMINT) CAPABILITIES*	-	-	3.899	-	3.899	-	-	-	-	0.000	3.899

Remarks

D. Acquisition Strategy

Funding will support CIHEP-A.

CIHEP-A is a modernization program to provide CI and HUMINT collectors a set of capabilities to answer Commanders' Intelligence requirements and protect the force. The program will leverage existing contract vehicles and Associated Support Items of Equipment (ASIOE) sources for the Commercial off the Shelf (COTS) and Government off the Shelf (GOTS) equipment. FY24 is planned to be for program initiation and soldier touchpoints to finalize a package configuration. FY25 funding supports final integration and testing and program office support to achieve a Milestone C.

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 0605206A / *CI and HUMINT Equipment Program-Army (CIHEP-A)*	Project (Number/Name) DG3 / *CI and HUMINT Equipment Program-Army (CIHEP-A)*	

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 planning and management	TBD	To Be Determined : To Be Determined	-	-		0.550	Oct 2023	0.564	Oct 2024	-		0.564	0.000	1.114	-
		Subtotal	-	-		0.550		0.564		-		0.564	0.000	1.114	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
Equipment Procurement, Integration and Demonstration	TBD	To Be Determined : To Be Determined	-	-		1.620	Feb 2024	0.732	Feb 2025	-		0.732	0.000	2.352	-
		Subtotal	-	-		1.620		0.732		-		0.732	0.000	2.352	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	-	-		2.170		1.296		-		1.296	0.000	3.466	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 0605206A / *CI and HUMINT Equipment Program-Army (CIHEP-A)*	**Project (Number/Name)** DG3 / *CI and HUMINT Equipment Program-Army (CIHEP-A)*

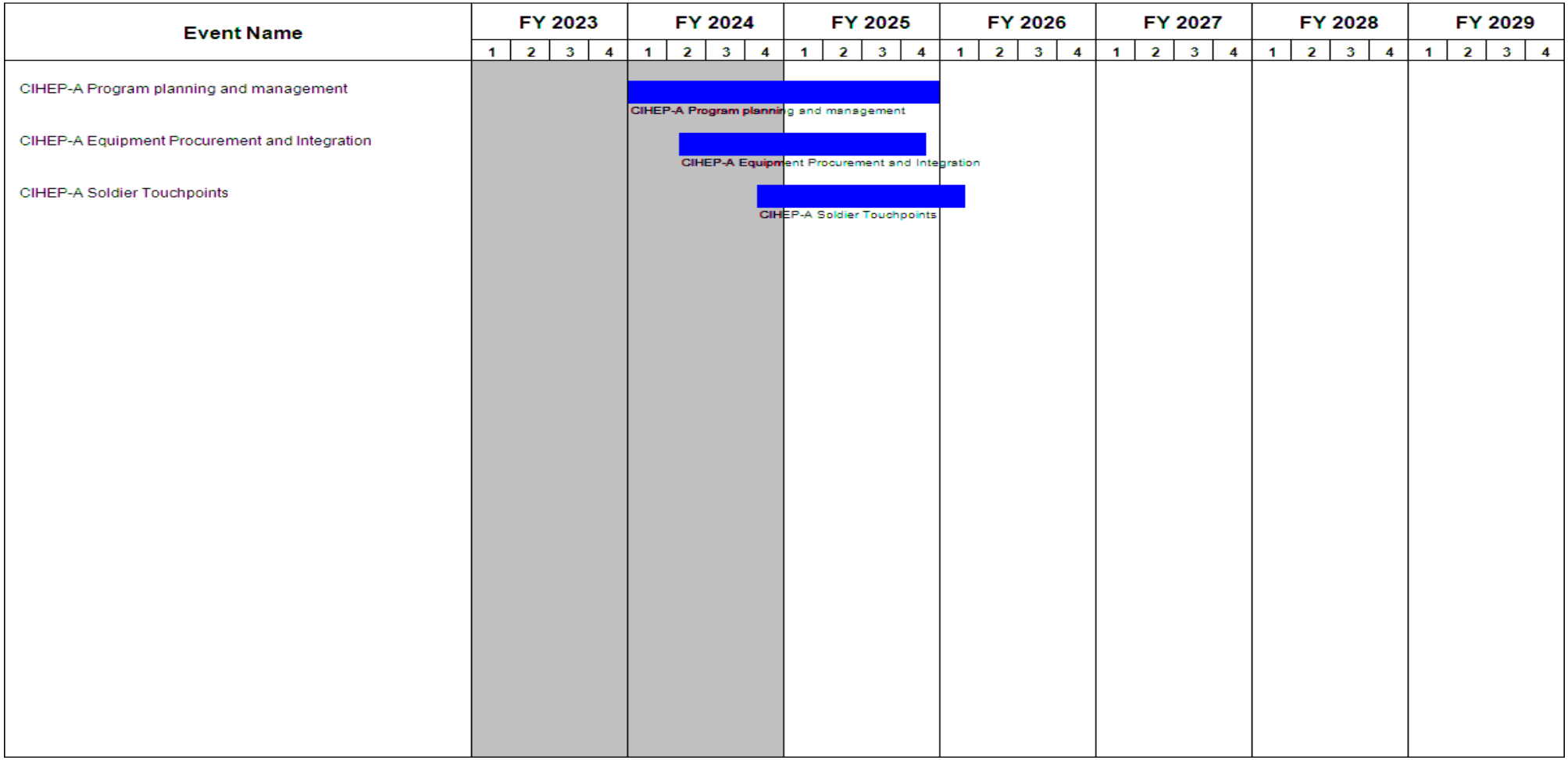


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605206A / *CI and HUMINT Equipment Program-Army (CIHEP-A)*	**Project (Number/Name)** DG3 / *CI and HUMINT Equipment Program-Army (CIHEP-A)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
CIHEP-A Program planning and management	1	2024	4	2025
CIHEP-A Equipment Procurement and Integration	2	2024	4	2025
CIHEP-A Soldier Touchpoints	4	2024	1	2026

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 0605216A *I Joint Targeting Integrated Command and Coordination Suite (JTIC2S)*

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	9.290	28.553	0.000	28.553	0.000	0.000	0.000	0.000	0.000	37.843
EFA: *Joint Target Integrated Cmd & Coordination Suite*	-	-	9.290	28.553	-	28.553	-	-	-	-	0.000	37.843

A. Mission Description and Budget Item Justification

This funding line directly aligns to the Army Long Range Precision Fires and Network modernization priorities.

The Joint Targeting Integrated Command and Coordination Suite (JTIC2S) software solution will provide critical fires/targeting capability for joint and organic Army fire support management and a joint fires/ targeting common operational picture (COP) for joint and coalition partners, as well as at echelon for target development. JTIC2S will replace the currently fielded legacy Joint Automated Deep Operations Coordination System (JADOCS), which is approaching end of useful life and is facing obsolescence issues due to outdated software architecture and code. JTIC2S will replace the JADOCS capability and will enable commanders to functionally integrate targeting efforts in a federated method. Military service branches at echelon will utilize the functions within JTIC2S for a synchronized targeting tactical picture with Army and Joint Fires COP to support Joint All Domain Command and Control (JADC2) and Multi Domain Operations (MDO) against a near-peer adversary. JTIC2S development efforts begin in FY24.

JTIC2S is a software only program that will use Continuous Integration/ Continuous Delivery (CI/CD) to develop software and deploy capabilities. The CI/CD approach employs modernized software development methodologies (e.g., agile, etc.), tools/techniques (e.g., DevOps, etc.) and human-centered design processes (e.g., Soldier Touch Points [STPs], etc.) to iteratively deliver software that meets Warfighter priority needs. The CI/CD approach features testing and user engagements (STPs) as integral parts of its process to ensure delivered capabilities satisfy requirements and add value for the Warfighter.

FY 2025 funding in the amount of $28.553 million will support the completion of the Minimal Viable Product (MVP), development/integration and testing of Joint interoperability requirements, additional system integration and emerging artificial intelligence/machine learning (AI/ML) capabilities.

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 0605216A *I Joint Targeting Integrated Command and Coordination Suite (JTIC2S)*

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	9.290	0.000	-	0.000
Current President's Budget	0.000	9.290	28.553	-	28.553
Total Adjustments	0.000	0.000	28.553	-	28.553
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	28.553	-	28.553

Change Summary Explanation

Increase in funding to develop system to be fully interoperable with Army, Joint, Intelligence Community and Coalition Forces systems for target collaboration.

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 0605216A / *Joint Targeting Integrated Command and Coordination Suite (JTIC2S)*	Project (Number/Name) EFA / *Joint Target Integrated Cmd & Coordination 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
EFA: *Joint Target Integrated Cmd & Coordination Suite*	-	-	9.290	28.553	-	28.553	-	-	-	-	0.000	37.843
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line directly aligns to the Army Long Range Precision Fires and Network modernization priorities.

The Joint Targeting Integrated Command and Coordination Suite (JTIC2S) software solution will provide critical fires/targeting capability for joint and organic Army fire support management and a joint fires/ targeting common operational picture (COP) for joint and coalition partners, as well as at echelon for target development. JTIC2S will replace the currently fielded legacy Joint Automated Deep Operations Coordination System (JADOCS), which is approaching end of useful life and is facing obsolescence issues due to outdated software architecture and code. JTIC2S will replace the JADOCS capability and will enable commanders to functionally integrate targeting efforts in a federated method. Military service branches at echelon will utilize the functions within JTIC2S for a synchronized targeting tactical picture with Army and Joint Fires COP to support Joint All Domain Command and Control (JADC2) and Multi Domain Operations (MDO) against a near-peer adversary. JTIC2S development efforts begin in FY24.

JTIC2S is a software only program that will use Continuous Integration/Continuous Delivery (CI/CD) to develop software and deploy capabilities. The CI/CD approach employs modernized software development methodologies (e.g., agile, etc.), tools/techniques (e.g., DevOps, etc.) and human-centered design processes (e.g., Soldier Touch Points [STPs], etc.) to iteratively deliver software that meets Warfighter priority needs. The CI/CD approach features testing and user engagements (STPs) as integral parts of its process to ensure delivered capabilities satisfy requirements and add value for the Warfighter.

FY 2025 funding in the amount of $28.553 million will support the development/integration and testing of the Minimal Viable Product (MVP), development/integration and testing of Joint interoperability requirements, additional system integration and emerging artificial intelligence/machine learning (AI/ML) capabilities.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Development	-	7.790	22.510
FY 2024 Plans: Conduct development efforts in support of the JTIC2S Minimal Viable Product, including the maturation and integration of several Science & Technology (S&T) products, as well as efforts to the harvest, containerize and integrate key legacy JADOCS capabilities.			
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 0605216A / *Joint Targeting Integrated Command and Coordination Suite (JTIC2S)*	**Project (Number/Name)** EFA / *Joint Target Integrated Cmd & Coordination Suite*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Complete development of Minimal Viable Product to replace JADOCS capability and begin development/integration of Joint interoperability requirements, additional system integration and emerging AI/ML capabilities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase due to a shift from maturation/integration efforts to complex development activities to enable machine-to-machine communication and functionality for multi-domain and joint target handoff.			
Title: System Engineering/Management ***FY 2024 Plans:*** Will provide Matrix and Contractor/SETA support to PMO for all aspects of the program including requirements decomposition, software development efforts, system engineering, logistics and business management support. ***FY 2025 Plans:*** Project management to include matrix and contractor to perform systems integration, engineering development/integration, operations, and safety/information assurance. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase due to requirement to provide appropriate expertise to manage the complex development and integration efforts of this phase.	-	1.500	3.981
Title: JTIC2S Test ***FY 2025 Plans:*** Continuous developmental/operational testing (DT/OT) and Soldier Touchpoints/exercises for the MVP and in support of development/integration of integrated joint capabilities, data types and AI/ML ***FY 2024 to FY 2025 Increase/Decrease Statement:*** DT/OT and Solider Touchpoints/exercises to commence in FY 2025.	-	-	2.062
Accomplishments/Planned Programs Subtotals	-	9.290	28.553

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The Joint Targeting Integrated Command and Coordination Suite (JTIC2S) requirement was validated by the Common Operating Environment (COE) Configuration Steering Board (CSB) in April 2022 under the COE Information System-Initial Capability Document, Command Post Computing Environment (CPCE) 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 0605216A / *Joint Targeting Integrated Command and Coordination Suite (JTIC2S)*	**Project (Number/Name)** EFA / *Joint Target Integrated Cmd & Coordination Suite*

Definition Package (RDP), Capability Drop 5 (CD5). JTIC2S is a software only program that will replace the legacy Joint Automated Deep Operations Coordination System (JADOCS) and provide a data-centric targeting capability that will meet increasing Joint interoperability demands, additional data types, and emerging artificial intelligence/machine learning capabilities to enable joint and coalition targeting support to Joint All Domain Command and Control (JADC2) and Multi Domain Operations (MDO).

To support program initiation in FY 2024, JTIC2S underwent Acquisition Shaping Panel reviews with the Deputy for Acquisition and Systems Management (DASM) in Jun and Dec 2022. After these stakeholder engagements, the DASM approved the use of the Major Capability Acquisition (MCA) pathway and delegation of Milestone Decision Authority (MDA) to Program Executive Office Command, Control and Communications-Tactical. The MDA approved the Materiel Development Decision in Sep 2023, and the program will initiate development and integration efforts in FY 2024.

JTIC2S is a software only program that is adopting a Continuous Integration/Continuous Delivery (CI/CD) approach to software development and capability deployment. This includes enhancing modernized software development methodologies (e.g., agile, etc.), tools/techniques (e.g., DevOps, etc.) and human-centered design processes (e.g., Soldier Touch Points [STPs], etc.) to iteratively deliver software that meets Warfighter priority needs. The CI/CD approach will feature continuous development and integration with testing and user engagements (STPs) as integral parts of the process to ensure delivered capability satisfies requirements and adds value for the Warfighter.

The JTIC2S program will leverage the investment of numerous Science and Technology efforts and legacy JADOCS capabilities to deliver a Minimal Viable Product (MVP), which will be matured through CI/CD. Future development and enhancements are expected to be executed via an Indefinite Delivery/Indefinite Quantity (ID/IQ) contract being established to support Product Manager Fire Support Command and Control (FSC2) portfolio needs. The ID/IQ contract will engage industry to facilitate the incorporation of best-of-breed solutions into FSC2 capabilities.

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 0605216A / *Joint Targeting Integrated Command and Coordination Suite (JTIC2S)*	Project (Number/Name) EFA / *Joint Target Integrated Cmd & Coordination 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
Program Management Support (Matrix)	IA	Various : APG, MD	-	-		0.688	Oct 2023	1.932	Oct 2024	-		1.932	0.000	2.620	-
Program Management Support (SETA)	Option/ CPFF	GSA : APG, MD	-	-		0.812	Oct 2023	2.049		-		2.049	0.000	2.861	-
		Subtotal	-	-		1.500		3.981		-		3.981	0.000	5.481	N/A

Remarks

Increase due to requirement to provide appropriate expertise to manage the complex development and integration efforts of this phase.

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	IA	C5ISR : APG, MD	-	-		7.790	Oct 2023	22.510	Oct 2024	-		22.510	0.000	30.300	-
		Subtotal	-	-		7.790		22.510		-		22.510	0.000	30.300	N/A

Remarks

Increase due to a shift from maturation/integration efforts to complex development activities to enable machine-to-machine communication and functionality for multi-domain and joint target handoff.

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
JTIC2S Test Support	IA	various : various	-	-		-		2.062	Oct 2024	-		2.062	0.000	2.062	-
		Subtotal	-	-		-		2.062		-		2.062	0.000	2.062	N/A

Remarks

DT/OT and Solider Touchpoints/exercises to commence 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 0605216A / *Joint Targeting Integrated Command and Coordination Suite (JTIC2S)*	Project (Number/Name) EFA / *Joint Target Integrated Cmd & Coordination Suite*	

	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	-	-		9.290		28.553		-		28.553	0.000	37.843	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 0605216A / *Joint Targeting Integrated Command and Coordination Suite (JTIC2S)*	**Project (Number/Name)** EFA / *Joint Target Integrated Cmd & Coordination Suite*

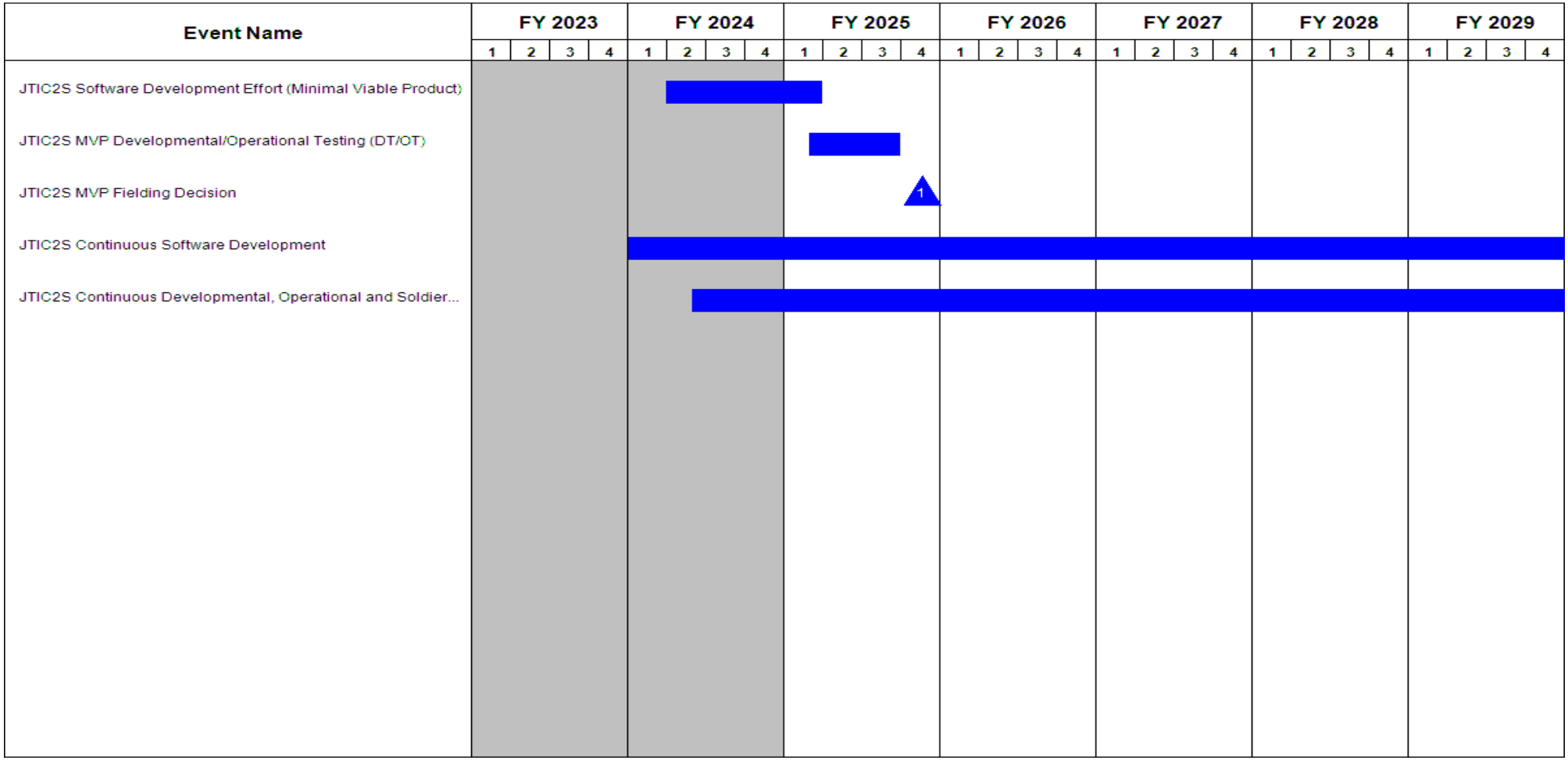


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605216A / *Joint Targeting Integrated Command and Coordination Suite (JTIC2S)*	**Project (Number/Name)** EFA / *Joint Target Integrated Cmd & Coordination Suite*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
JTIC2S Software Development Effort (Minimal Viable Product)	2	2024	1	2025
JTIC2S MVP Developmental/Operational Testing (DT/OT)	1	2025	3	2025
JTIC2S MVP Fielding Decision	4	2025	4	2025
JTIC2S Continuous Software Development	1	2024	4	2030
JTIC2S Continuous Developmental, Operational and Soldier Touch Point Testing	2	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 I* BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605224A *I Multi-Domain Intelligence*							
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	-	6.008	41.003	18.913	-	18.913	35.190	38.934	39.370	39.763	Continuing	Continuing
CK4: *Intelligence Apps and Integration (MIP)*	-	6.008	23.697	1.648	-	1.648	17.596	20.959	20.984	21.377	Continuing	Continuing
DD8: *Army Intelligence Data Platform (AIDP)*	-	-	8.899	8.878	-	8.878	8.827	9.208	9.619	9.619	Continuing	Continuing
DD9: *Geospatial Intelligence (GEOINT)*	-	-	8.407	8.387	-	8.387	8.767	8.767	8.767	8.767	Continuing	Continuing

A. Mission Description and Budget Item Justification

Multi-Domain Intelligence (MDI) is the Army Intelligence Enterprise's overarching modernization framework that drives Military Intelligence (MI) modernization priorities to field a ready Army Intelligence team supporting Mission Command against all threats in Multi-domain Operations (MDO) by 2028. The MDI framework will enable intelligence professionals to execute the intelligence cycle and associated doctrinal functions with increased speed, precision, and accuracy in both competition and conflict. The framework's emphasis on modernizing sensors, enhancing data management practices, and advancing analytical tradecraft through technology will support commanders' ability to make sound, timely decisions, placing friendly forces in a position of decisive advantage.

CK4: The Intelligence Applications and Integration (Intel Apps) Program is a software-centric, hardware agnostic ACAT III Program that will provide the Next Generation intelligence capabilities aligned to the National Defense Strategy and Multi-Domain Operations by enabling intelligence professionals to work through the intelligence cycle with increased speed, precision and accuracy. The Intel Apps Program will synchronize applications (including All Source, Information Collection, Weather effects, Intelligence Support to Targeting, and Single Intelligence capabilities (HUMINT, SIGINT, IMINT)) to be integrated into a Cloud environment, the Command Post Computing Environment (CPCE), or any dedicated hardware platform, thus eliminating redundant, stove-piped, and resource intensive applications. Intel Apps will transition to the Software Acquisition Pathway in FY2024.

DD8: The MDI funding will be used to enable Capability Drop 2 (CD2)/Army Intelligence Data Platform (AIDP) to incorporate user feedback in a Continuous Integration/ Continuous Deployment (CI/CD) environment by transitioning from traditional JCIDS acquisition to the Software Acquisition Pathway. This environment will also implement a Development Security Operations (DEVSECOPS)) approach for generating user feedback into system enhancements/improvements.

DD9: The MDI funding will also be used for the modernization of Army Geospatial hardware and software capabilities. The funding will be used to continue the establishment of the Army Integrated Geospatial Enterprise Capability (AIGEC) that builds the foundational layer off which Army products that utilize Geospatial capabilities draw data. The Army will focus on leveraging commercial items and proven technologies to the maximum extent possible in order to reduce costs and maximize superior capabilities to be delivered to warfighters.

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 0605224A / *Multi-Domain Intelligence*			
B. Program Change Summary ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Previous President's Budget	6.008	41.003	38.696	-	38.696
Current President's Budget	6.008	41.003	18.913	-	18.913
Total Adjustments	0.000	0.000	-19.783	-	-19.783
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-19.783	-	-19.783

Change Summary Explanation

Decreased in funding to support higher Army priorities.

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 0605224A / *Multi-Domain Intelligence*	Project (Number/Name) CK4 / *Intelligence Apps and Integration (MIP)*	

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
CK4: *Intelligence Apps and Integration (MIP)*	-	6.008	23.697	1.648	-	1.648	17.596	20.959	20.984	21.377	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Intelligence Applications and Integration (Intel Apps) Program is a software-centric, hardware agnostic ACAT III Program that will provide the Next Generation intelligence capabilities aligned to the National Defense Strategy and Multi-Domain Operations by enabling intelligence professionals to work through the intelligence cycle with increased speed, precision, and accuracy. The Intel Apps Program will synchronize applications (including All Source, Information Collection, Weather effects, Intelligence Support to Targeting, and Single Intelligence capabilities (HUMINT, SIGINT, IMINT) to be integrated into a Cloud environment, the Command Post Computing Environment (CPCE), or any dedicated hardware platform, thus eliminating redundant, stove-piped, and resource intensive applications. Intel Apps will transition to the Software Acquisition Pathway in FY2024.

The FY25 funds in the amount of $1.648 million will focus on continued integration of Intel Apps 3 & 4 (Weather Operational Effects and Information Collection Management) and follow-on low-demand operational delta testing.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Intelligence Applications and Integration ***Description:*** Provide Next Generation intelligence capabilities. Each application is on a two year cycle, therefore by year 2+ and every year beyond there will be overlap between released applications. ***FY 2024 Plans:*** Development of the Information Collection Management and Weather Operational Effects applications, Operational Testing of Apps 1 & 2 (All Source II and Intel Support to Targeting) and the necessary Market Research for future Intelligence Applications. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding decrease reflects change in FY25 priorities.	6.008	6.464	-
Title: Intelligence Apps 1 & 2 Integration ***Description:*** Provide Next Generation intelligence capabilities. ***FY 2024 Plans:*** Integration of Targeting and All Source applications. ***FY 2024 to FY 2025 Increase/Decrease Statement:***	-	8.263	-

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 0605224A / *Multi-Domain Intelligence*	**Project (Number/Name)** CK4 / *Intelligence Apps and Integration (MIP)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Funding decrease reflects change in FY25 priorities.			
Title: Intelligence Apps 3 & 4 ***Description:*** Integration of the Intel Apps 3 & 4 (Weather Operational Effects and Information Collection Management). ***FY 2024 Plans:*** Initiate development of Apps 3 & 4 ***FY 2025 Plans:*** Continued integration of Apps 3 &4 (Weather Operational Effects and Information Collection Management), follow-on, low-demand operational delta-testing, and fielding. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding decrease reflects change in FY25 priorities.	-	8.970	1.648
Accomplishments/Planned Programs Subtotals	6.008	23.697	1.648

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
• K26111: *INTELLIGENCE APPLICATIONS*	-	32.729	37.200	-	37.200	37.142	56.726	37.663	38.227	Continuing	Continuing

Remarks

D. Acquisition Strategy

Acquire the Intelligence Applications through procurement of commercially available, open-market products, or through leveraging capabilities from Agencies' and Functional Managers' standard software, or through using matured intelligence capabilities from Science and Technology initiatives for integration onto the CPCE infrastructure, onto Intelligence based Edge Nodes, or into the Cloud. Each capability will use the Software Pathways Acquisition Approach as a method to continuously enhance and modernize software capabilities throughout the capability's life cycle. Based on Market Research for the first four software applications, the government identified that commercial items will be procured via competitive contracts. Market Research for SIGINT and GEOINT will indicate whether commercial items are available or whether the Government will initiate a separate development activity. In order to meet military maturity and DoD standards, these applications will require additional modification, integration and testing support.

Most importantly, the Government is developing a government managed/open standards Application Program Interface (API) document to support the interoperability between these applications and other components within the Army's Multi-Domain Intelligence enterprise, to include the Capability Drop 1 (CD1), Capability Drop 2 (CD2)/Army Intelligence Data Platform (AIDP), and the Tactical Intelligence Targeting Access Node (TITAN) 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 0605224A / *Multi-Domain Intelligence*	Project (Number/Name) CK4 / *Intelligence Apps and Integration (MIP)*	

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	Option/ CPFF	QED : APG, MD	0.745	0.272	Dec 2022	1.486	Dec 2023	0.248	Dec 2024	-		0.248	0.000	2.751	-
		Subtotal	0.745	0.272		1.486		0.248		-		0.248	0.000	2.751	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
System Engineering/SME Support	Option/ CPFF	BOOZ ALLEN HAMILTON : APG, MD	3.968	0.752	Dec 2022	5.341	Dec 2023	0.250	Dec 2024	-		0.250	0.000	10.311	-
Information Assurance/ Risk Management	Option/ CPFF	BOOZ ALLEN HAMILTON : APG, MD	0.500	0.112	Dec 2022	1.468	Dec 2023	0.150	Dec 2024	-		0.150	0.000	2.230	-
		Subtotal	4.468	0.864		6.809		0.400		-		0.400	0.000	12.541	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
Training Development	RO	C5ISR : APG, MD	0.900	0.132	Mar 2023	1.705	Mar 2024	0.100	Mar 2025	-		0.100	0.000	2.837	-
Integration effort into CPCE/Edge Node/Cloud	RO	C5ISR : APG, MD	1.950	2.613	Mar 2023	2.131	Mar 2024	0.100	Mar 2025	-		0.100	0.000	6.794	-
Weather Operational Effects (application 3)	TBD	TBD : TBD	-	-		5.280	Jan 2024	0.200	Jan 2025	-		0.200	0.000	5.480	-
Information Collection Management (application 4)	TBD	TBD : TBD	-	-		3.730	Jan 2024	0.200	Jan 2025	-		0.200	0.000	3.930	-
		Subtotal	2.850	2.745		12.846		0.600		-		0.600	0.000	19.041	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 0605224A / *Multi-Domain Intelligence*	Project (Number/Name) CK4 / *Intelligence Apps and Integration (MIP)*	

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	ATEC : APG, MD	1.250	2.127	Mar 2023	2.556	Mar 2024	0.400	Mar 2025	-		0.400	0.000	6.333	-
		Subtotal	1.250	2.127		2.556		0.400		-		0.400	0.000	6.333	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	9.313	6.008		23.697		1.648		-		1.648	0.000	40.666	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 0605224A / *Multi-Domain Intelligence*	**Project (Number/Name)** CK4 / *Intelligence Apps and Integration (MIP)*

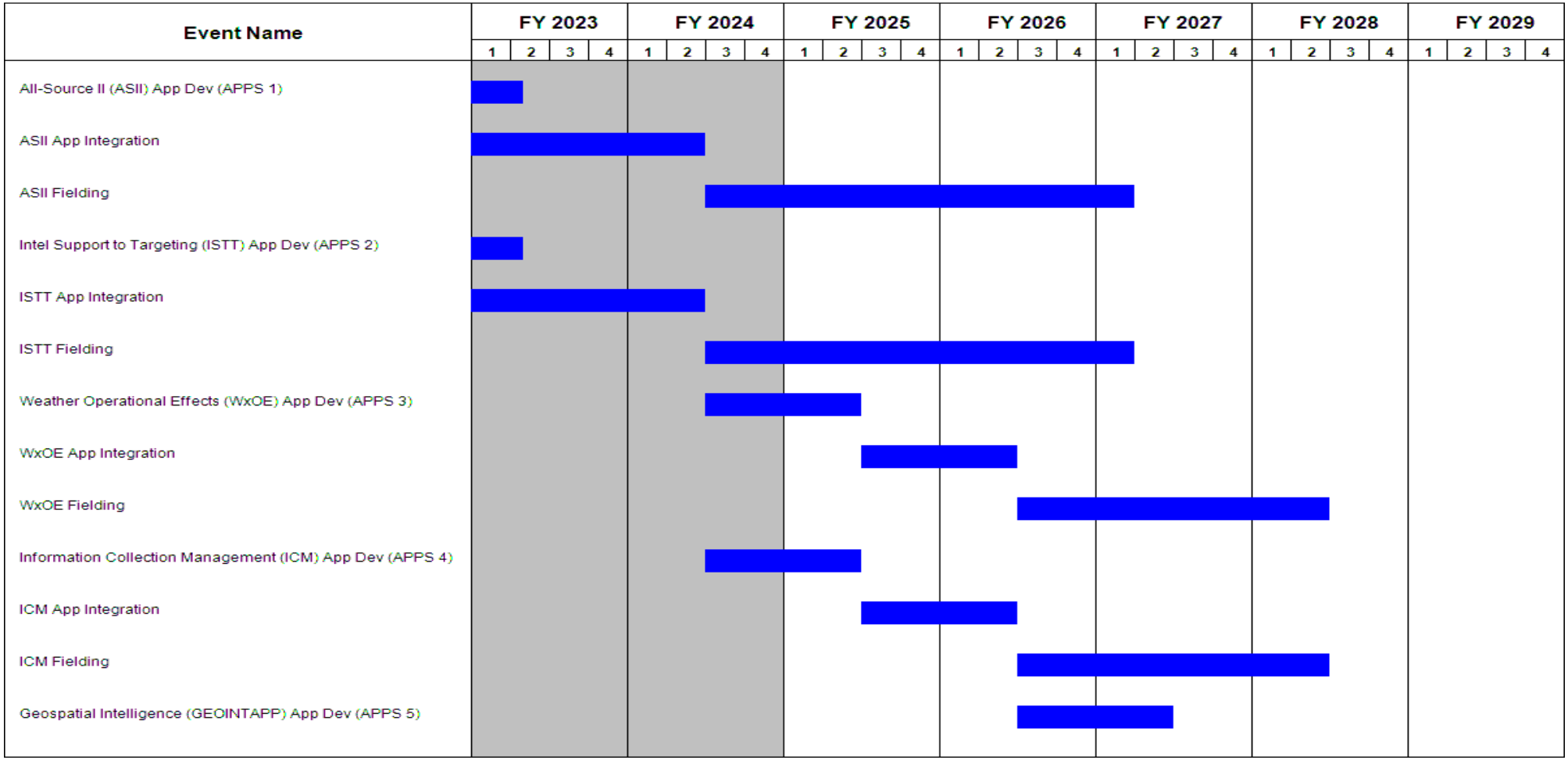


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605224A / *Multi-Domain Intelligence*	**Project (Number/Name)** CK4 / *Intelligence Apps and Integration (MIP)*

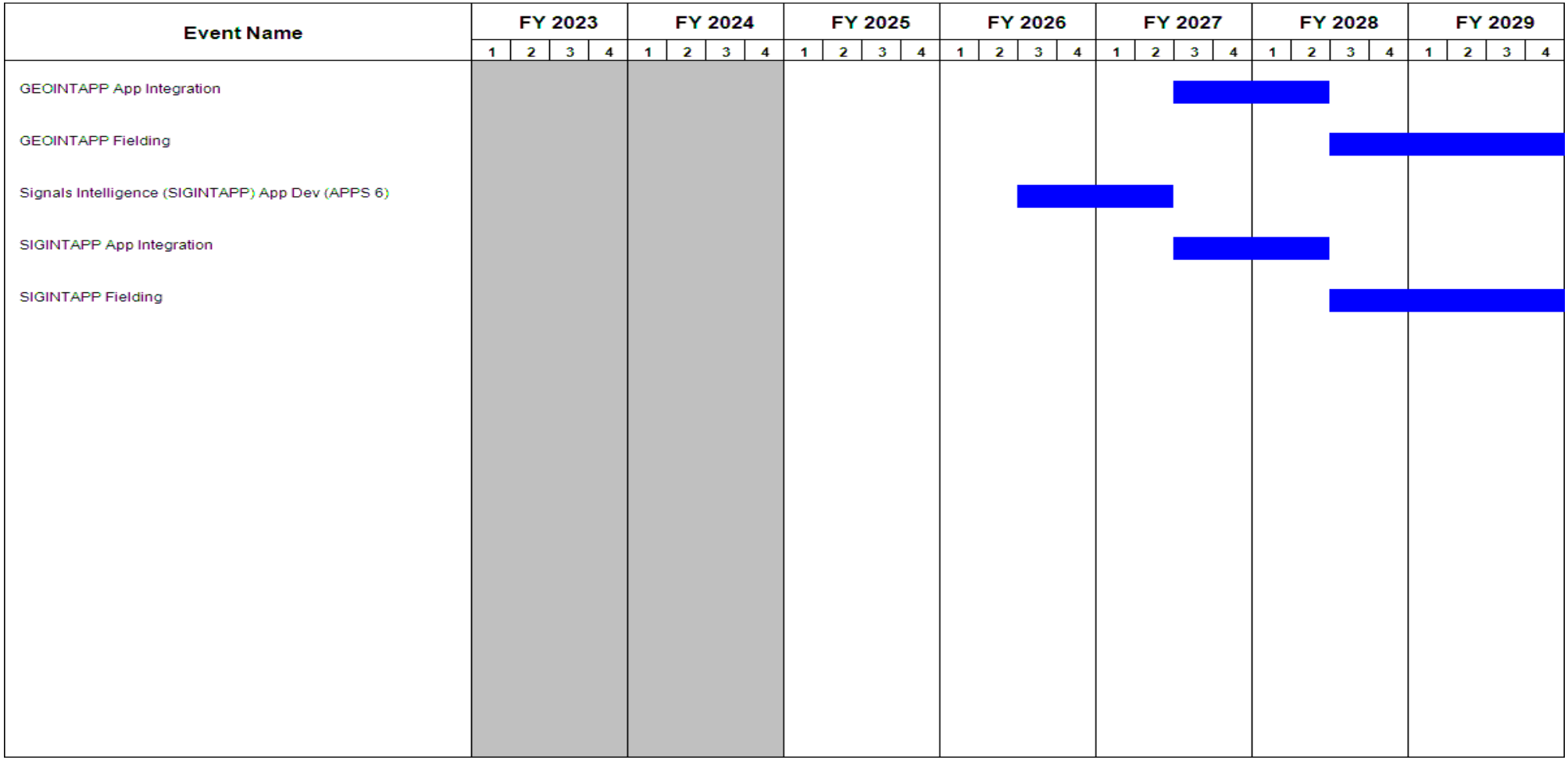


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605224A / *Multi-Domain Intelligence*	**Project (Number/Name)** CK4 / *Intelligence Apps and Integration (MIP)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Materiel Development Decision	2	2021	2	2021
Milestone B Decision	4	2022	4	2022
All-Source II (ASII) App Dev (APPS 1)	4	2022	1	2023
ASII App Integration	4	2022	2	2024
ASII Fielding	3	2024	1	2027
Intel Support to Targeting (ISTT) App Dev (APPS 2)	4	2022	1	2023
ISTT App Integration	4	2022	2	2024
ISTT Fielding	3	2024	1	2027
Weather Operational Effects (WxOE) App Dev (APPS 3)	3	2024	2	2025
WxOE App Integration	3	2025	2	2026
WxOE Fielding	3	2026	2	2028
Information Collection Management (ICM) App Dev (APPS 4)	3	2024	2	2025
ICM App Integration	3	2025	2	2026
ICM Fielding	3	2026	2	2028
Geospatial Intelligence (GEOINTAPP) App Dev (APPS 5)	3	2026	2	2027
GEOINTAPP App Integration	3	2027	2	2028
GEOINTAPP Fielding	3	2028	1	2030
Signals Intelligence (SIGINTAPP) App Dev (APPS 6)	3	2026	2	2027
SIGINTAPP App Integration	3	2027	2	2028
SIGINTAPP Fielding	3	2028	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 0605224A / *Multi-Domain Intelligence*	Project (Number/Name) DD8 / *Army Intelligence Data Platform (AIDP)*	

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
DD8: *Army Intelligence Data Platform (AIDP)*	-	-	8.899	8.878	-	8.878	8.827	9.208	9.619	9.619	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Army Intelligence Data Platform (AIDP), also known as Distributed Common Ground System - Army (DCGS-A) Capability Drop 2 (CD2) is a commercial item acquisition to modernize the Army Intelligence Data Enterprise with data warehousing and advanced analytical capabilities. AIDP is operationalized by the Army's Intelligence Security Command (INSCOM) and uses AIDP for the Army Intelligence and Security Enterprise (AISE). AIDP provides the Army Enterprise capabilities hosted in the Cloud that supports specific functionality such as Data Ingestion (Bringing data into the system), Data Persistence (Storing data within the system), Data Egress (Sharing data with other systems), Normalization (Ensuring data is in a standardized form and format), Deduplication and Correlation (Combining data based on rules or duplication), and Advanced Analytics such as Geospatial Feasibility, Course of Action Projection, and Pattern Discovery and Detection. The AIDP RDTE funding will be used to develop and test Develop Security Operations (DEVSECOPS) system enhancements and soldier driven workflow improvements to the AIDP software.

The FY25 funds in the amount of $8.878 million will focus on the continued development, integration, and testing of the Army Intelligence Data Platform (AIDP).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Army Intelligence Data Platform (AIDP) ***Description:*** Proven technology capabilities. ***FY 2024 Plans:*** Leverage proven technology as a means of providing capabilities in the fastest and most efficient means possible. ***FY 2025 Plans:*** Integration, deployment, and evaluation (DEVSECOPS) under the Software Acquisition Pathway of the Army Intelligence Data Platform (AIDP) to continue to enhance and modernize the software capability. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decreased funding reflects planned lifecycle of the effort.	-	8.899	3.203
Title: Army Intelligence Data Platform (AIDP) MVP ***Description:*** Minimum Viable Product build, software release, and user feedback. ***FY 2025 Plans:***	-	-	2.840

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 0605224A / *Multi-Domain Intelligence*	**Project (Number/Name)** DD8 / *Army Intelligence Data Platform (AIDP)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Integration, deployment, and evaluation (DEVSECOPS) under the SW Acquisition Pathway of the Army Intelligence Data Platform (AIDP) to continue to enhance and modernize the software capability. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase funding due to beginning DEVSECOPS in SW Acquisition Pathway.			
Title: Army Intelligence Data Platform (AIDP) MVCR ***Description:*** Minimum Viable Capability Release build and software release. ***FY 2025 Plans:*** Integration, deployment, and evaluation (DEVSECOPS) under the SW Acquisition Pathway of the Army Intelligence Data Platform (AIDP) to continue to enhance and modernize the software capability. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase funding due to beginning DEVSECOPS in SW Acquisition Pathway.	-	-	2.835
Accomplishments/Planned Programs Subtotals	-	8.899	8.878

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
• K26444: *ARMY INTELLIGENCE DATA PLATFORM (AIDP) (CD2)*	-	17.464	17.207	-	17.207	10.070	7.931	5.339	5.339	Continuing	Continuing

Remarks

D. Acquisition Strategy

The acquisition strategy is to leverage already commercially acquired software as the foundation for AIDP and make changes/add enhancements via multiple activities. The AIDP product with utilize the Software Acquisition Pathway (SWP) as a means of continuously using user feedback to enhance and modernize the CD2/AIDP capability. These activities will include utilization of government owned/developed code and Firm -Fixed Price Engineering Change Proposals with the current AIDP Software vendor with integration via the Continuous Integration/Continuous Deployment (CI/CD) DEVSECOPS methodology. This will enable CD2/AIDP to incorporate user feedback in a CI/CD environment by transitioning from traditional JCIDS acquisition to the flexible/agile acquisition strategy such as the SWP.

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 0605224A / *Multi-Domain Intelligence*	Project (Number/Name) DD8 / *Army Intelligence Data Platform (AIDP)*	

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
PM Support	TBD	PM Office; QED; Matrix : APG, MD	-	-		0.800	Oct 2023	0.843	Oct 2024	-		0.843	Continuing	Continuing	Continuing
		Subtotal	-	-		0.800		0.843		-		0.843	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
Army Intelligence Data Platform MVP	Option/ CPFF	ACC, APG : APG, MD	-	-		5.349	Mar 2024	2.840	Dec 2024	-		2.840	Continuing	Continuing	Continuing
Army Intelligence Data Platform MVCR	Option/ TBD	ACC, APG : APG, MD	-	-		-		2.835	Apr 2025	-		2.835	Continuing	Continuing	Continuing
		Subtotal	-	-		5.349		5.675		-		5.675	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
Integration Support	TBD	TBD : APG, MD	-	-		1.250	Nov 2023	1.300	Nov 2024	-		1.300	Continuing	Continuing	Continuing
		Subtotal	-	-		1.250		1.300		-		1.300	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	TBD	ATEC : APG, MD	-	-		1.500	Jan 2024	1.060	Jan 2025	-		1.060	Continuing	Continuing	Continuing
		Subtotal	-	-		1.500		1.060		-		1.060	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 0605224A / *Multi-Domain Intelligence*	Project (Number/Name) DD8 / *Army Intelligence Data Platform (AIDP)*	

	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	-	-		8.899		8.878		-		8.878	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 0605224A / *Multi-Domain Intelligence*	**Project (Number/Name)** DD8 / *Army Intelligence Data Platform (AIDP)*

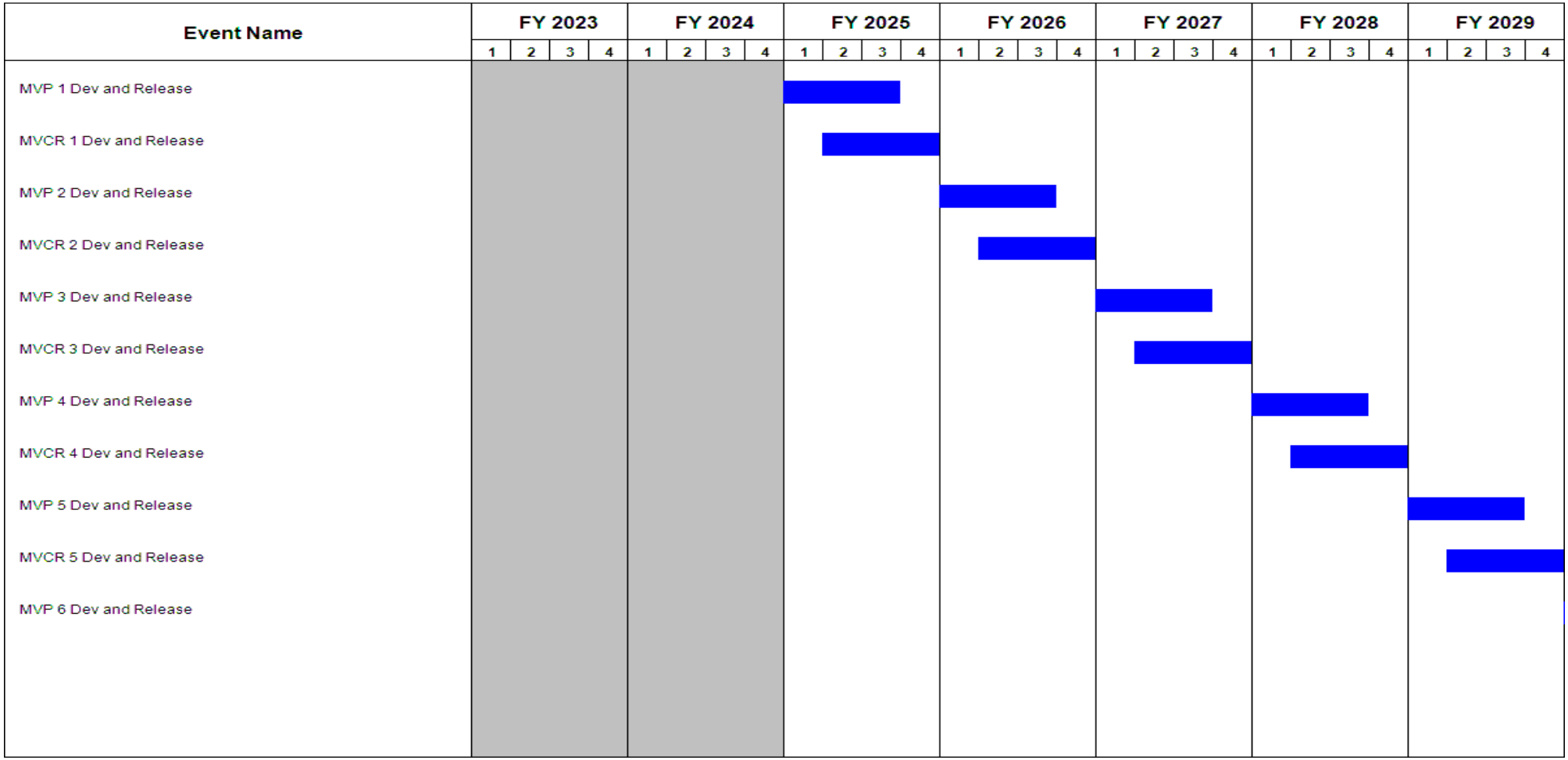


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605224A / *Multi-Domain Intelligence*	**Project (Number/Name)** DD8 / *Army Intelligence Data Platform (AIDP)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
MVP 1 Dev and Release	1	2025	3	2025
MVCR 1 Dev and Release	2	2025	4	2025
MVP 2 Dev and Release	1	2026	3	2026
MVCR 2 Dev and Release	2	2026	4	2026
MVP 3 Dev and Release	1	2027	3	2027
MVCR 3 Dev and Release	2	2027	4	2027
MVP 4 Dev and Release	1	2028	3	2028
MVCR 4 Dev and Release	2	2028	4	2028
MVP 5 Dev and Release	1	2029	3	2029
MVCR 5 Dev and Release	2	2029	4	2029
MVP 6 Dev and Release	1	2030	3	2030
MVCR 6 Dev and Release	2	2030	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 0605224A / *Multi-Domain Intelligence*	Project (Number/Name) DD9 / *Geospatial Intelligence (GEOINT)*	

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
DD9: *Geospatial Intelligence (GEOINT)*	-	-	8.407	8.387	-	8.387	8.767	8.767	8.767	8.767	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Army Integrated Geospatial Enterprise Capability (AIGEC) is the singular set of modernized Army Geospatial requirements that will fold into the enduring Geospatial Intelligence Workstation Tactical Server Infrastructure (GWS/TSI) and subsequent platforms. AIGEC requirements were approved in November 2021 by the 2-Star Common Operating Environment (COE) Configuration Steering Board (SCB). Funding for AIGEC advances the Geospatial Engineers ability to perform the functions of Generation, Management, Analysis & Dissemination (GMAD) of geospatial data as described in Army Technical Publication (ATP) 3-34.80. AIGEC capabilities provide the ability to meet all COE Information System Capability Description Document (IS-CDD) and Command Post Computing Environment (CPCE) Requirements Definition Package (RDP) geospatial requirements. AIGEC requirements include: generating data to fill the gaps in the Theater Geospatial Database (TGD) and Standard Sharable Geospatial Foundation (SSGF); managing the data to support the Multi Domain Operations Common Operational Picture; analyzing the terrain in support of the Military Decision Making Process (MDMP) with predictive analysis, providing actionable information products such as the Course of Operations (COO) for Intelligence Preparation of the Battlefield (IPB); and disseminating geospatial data and information via web services and hardcopy publishing.

The FY25 funds in the amount of $8.387 million will support the development, integration and testing of Army Integrated Geospatial Enterprise Capability (AIGEC).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Army Integrated Geospatial Enterprise Capability (AIGEC) ***Description:*** Product Development and Test and Evaluation, and integration of products that meet AIGEC requirements (Army Geospatial Data Fabric, Tactical Geospatial capabilities, and GWS/TSI). ***FY 2024 Plans:*** Initiate efforts for the AIGEC program modernization. ***FY 2025 Plans:*** Continued Integration of AGDF, Tactical Geospatial capabilities, GWS Hardware and Software Modernization, and the development of 3D One World Terrain. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decreased funding reflects planned lifecycle of the effort.	-	8.407	6.177
Title: Program Management and Product Support ***Description:*** Program Management and Product Support.	-	-	2.210

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 0605224A / *Multi-Domain Intelligence*	**Project (Number/Name)** DD9 / *Geospatial Intelligence (GEOINT)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 Plans: Conduct Program Management and Product Support of the AIGEC program. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase in funding represents detailed description of cost to program.			
Accomplishments/Planned Programs Subtotals	-	8.407	8.387

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
• K26222: *GEOSPATIAL INTELLIGENCE*	-	12.460	25.505	-	25.505	14.716	15.368	9.193	9.192	Continuing	Continuing

Remarks

D. Acquisition Strategy

The Army will fulfill the requirements of AIGEC and One World Terrain (OWT) through three lines of effort that will (1) modernize Army Geospatial Intelligence (GEOINT) Workstation (GWS) hardware and software, (2) integrate Army Geospatial and GEOINT capabilities into tactical mission command or stand-alone systems where required, and (3) develop the Army Geospatial Data Fabric (AGDF). The Army will procure commercially available products that require minimal development to operationalize for military use. The Army will also leverage capabilities already used by the government from other Agencies' and Functional Managers' standard software or using matured capabilities from Science and Technology initiatives. Market Research will indicate whether commercial items are available or whether the Government will initiate a separate development activity in order to meet military maturity and DoD standards. The Army will also pursue the development of One World Terrain capabilities by utilizing AGDF capabilities and other AIGEC hardware to commercially procure software that can be hosted on these systems.

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 0605224A / *Multi-Domain Intelligence*	Project (Number/Name) DD9 / *Geospatial Intelligence (GEOINT)*	

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	MIPR	PM Office; Matrix : APG, MD	-	-		0.800	Oct 2023	0.835	Oct 2024	-		0.835	0.000	1.635	-
		Subtotal	-	-		0.800		0.835		-		0.835	0.000	1.635	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
Army Integrated Geospatial Enterprise Capability (AIGEC)	Option/ CPFF	ACC, APG : APG, MD	-	-		4.857	Mar 2024	5.202	Mar 2025	-		5.202	0.000	10.059	-
		Subtotal	-	-		4.857		5.202		-		5.202	0.000	10.059	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
Integration Support	TBD	TBD : APG, MD	-	-		1.250	Jan 2024	1.375	Jan 2025	-		1.375	0.000	2.625	-
		Subtotal	-	-		1.250		1.375		-		1.375	0.000	2.625	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	ATEC : APG, MD	-	-		1.500	Jan 2024	0.975	Jan 2025	-		0.975	0.000	2.475	-
		Subtotal	-	-		1.500		0.975		-		0.975	0.000	2.475	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	-	-		8.407		8.387		-		8.387	0.000	16.794	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 0605224A / *Multi-Domain Intelligence*	Project (Number/Name) DD9 / *Geospatial Intelligence (GEOINT)*	

	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 0605224A / *Multi-Domain Intelligence*	**Project (Number/Name)** DD9 / *Geospatial Intelligence (GEOINT)*

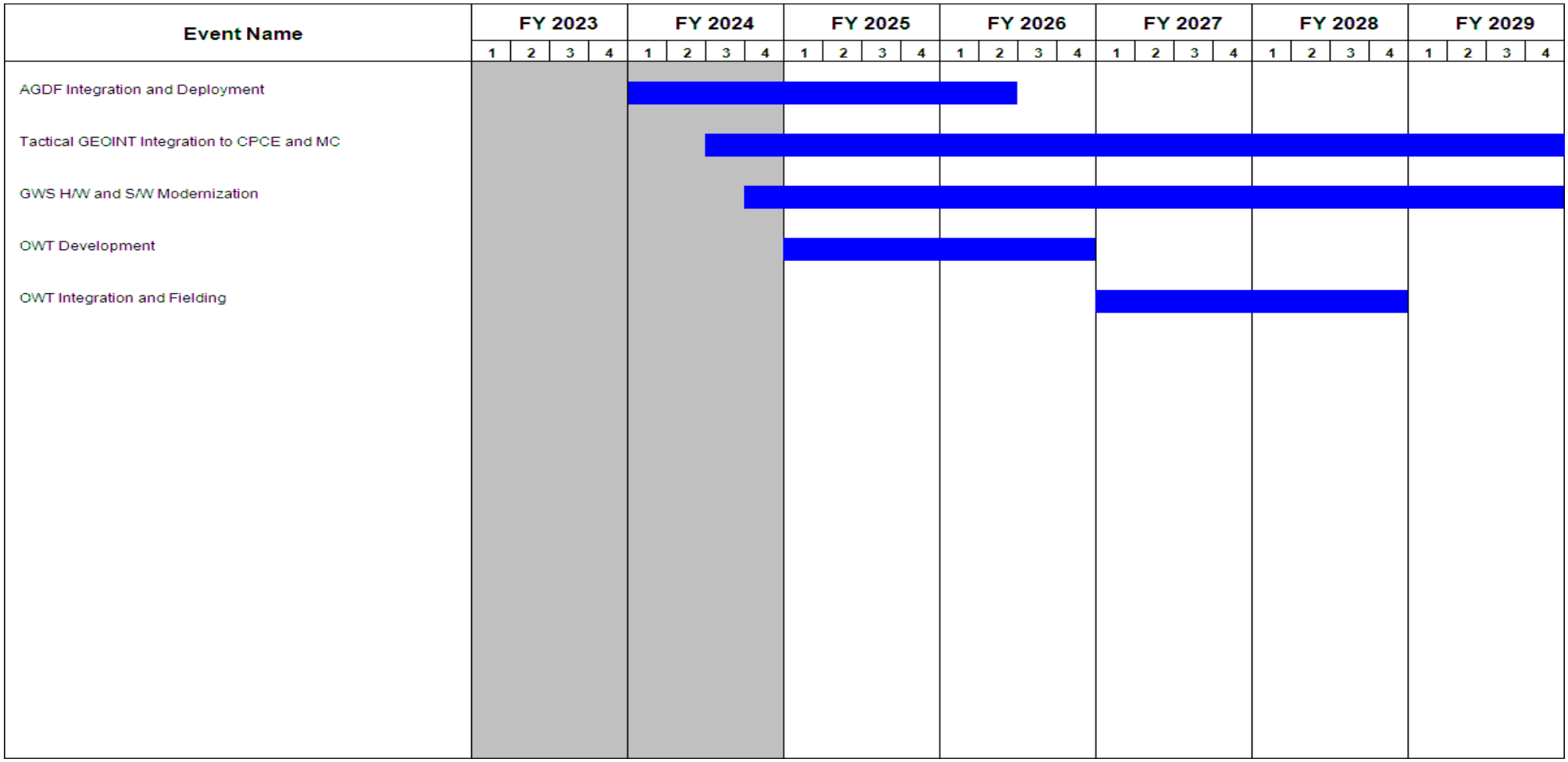


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605224A / *Multi-Domain Intelligence*	**Project (Number/Name)** DD9 / *Geospatial Intelligence (GEOINT)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
AGDF Integration and Deployment	1	2024	2	2026
Tactical GEOINT Integration to CPCE and MC	3	2024	4	2030
GWS H/W and S/W Modernization	4	2024	4	2029
OWT Development	1	2025	4	2026
OWT Integration and Fielding	1	2027	4	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 0605231A / *Precision Strike Missile (PrSM)*							
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	-	250.034	272.786	184.046	-	184.046	201.504	241.956	244.593	247.037	0.000	1,641.956
CO3: *Precision Strike Missile (PrSM)*	-	250.034	272.786	184.046	-	184.046	201.504	241.956	244.593	247.037	0.000	1,641.956

A. Mission Description and Budget Item Justification

Precision Strike Missile (PrSM) funding line is directly aligned to the Army Long Range Precision Fires Modernization Priority.

PrSM is the Army's next generation surface-to-surface missile that replaces and improves upon Army Tactical Missile System (ATACMS) capabilities. The PrSM program is a component of an integrated fires development effort that includes survivability, resiliency, and effectiveness improvements against advanced threats from near-peer adversaries. These efforts include integration with an evolving common fires mission command, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.

PrSM requirements include: threshold max range of 400 kilometers (km), specified lethality against the designated target set, a Launch Pod Missile Container (LPMC) that holds two missiles, survivability in a threat environment, and compatibility with the existing launcher platforms (M270A2 Multiple Launch Rocket System (MLRS) and M142 High Mobility Artillery Rocket System (HIMARS)). PrSM will meet cluster and Insensitive Munition (IM) requirements and is designed with an open system approach that provides the capability for future growth to counter new and emerging threats. PrSM is an incremental development program.

The mission of PrSM Increment 1 is to attack/neutralize/suppress/destroy targets using missile delivered indirect precision fires. PrSM will provide Joint Force Commanders with a 24/7, all-weather capability to attack critical and time sensitive area and point targets including threat air defense, missile launchers, command and control centers, assembly/staging areas and high payoff targets at all depths of the multi-domain battlefield. PrSM will counter the enemy's ability to conduct combat maneuver and air defense operations.

PrSM Increment 2 integrates a seeker to attack critical time sensitive moving maritime or relocatable land targets.

Future PrSM increments will provide increased lethality against hardened targets and extend range capability.

FY 2025 Base dollars in the amount of $184.046 million supports continuation of PrSM Increment 1 Engineering and Manufacturing Development (EMD) and Increment 2 technology maturation risk reduction efforts leading to system level prototype flights.

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 0605231A *I Precision Strike Missile (PrSM)*		
B. Program Change Summary ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Previous President's Budget	259.506	272.786	238.657	-	238.657
Current President's Budget	250.034	272.786	184.046	-	184.046
Total Adjustments	-9.472	0.000	-54.611	-	-54.611
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-9.472	-			
• Adjustments to Budget Years	-	-	-54.611	-	-54.611

Change Summary Explanation

Reductions: $15.000 million moved to PrSM Missile Procurement (PE C29600), $39.980 million realigned for Army approved reductions, and $0.369 million added 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 0605231A / *Precision Strike Missile (PrSM)*	Project (Number/Name) CO3 / *Precision Strike Missile (PrSM)*	

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
CO3: *Precision Strike Missile (PrSM)*	-	250.034	272.786	184.046	-	184.046	201.504	241.956	244.593	247.037	0.000	1,641.956
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Precision Strike Missile (PrSM) funding line is directly aligned to the Army Long Range Precision Fires Modernization Priority.

PrSM is the Army's next generation surface-to-surface missile that replaces and improves upon Army Tactical Missile System (ATACMS) capabilities. The PrSM program is a component of an integrated fires development effort that includes survivability, resiliency, and effectiveness improvements against advanced threats from near-peer adversaries. These efforts include integration with an evolving common fires mission command, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.

PrSM requirements include: threshold max range of 400 kilometers (km), specified lethality against the designated target set, a Launch Pod Missile Container (LPMC) that holds two missiles, survivability in a threat environment, and compatibility with the existing launcher platforms (M270A2 Multiple Launch Rocket System (MLRS) and M142 High Mobility Artillery Rocket System (HIMARS)). PrSM will meet cluster and Insensitive Munition (IM) requirements and is designed with an open system approach that provides the capability for future growth to counter new and emerging threats. PrSM is an incremental development program.

The mission of PrSM Increment 1 is to attack/neutralize/suppress/destroy targets using missile delivered indirect precision fires. PrSM will provide Joint Force Commanders with a 24/7, all-weather capability to attack critical and time sensitive area and point targets including threat air defense, missile launchers, command and control centers, assembly/staging areas and high payoff targets at all depths of the multi-domain battlefield. PrSM will counter the enemy's ability to conduct combat maneuver and air defense operations.

PrSM Increment 2 integrates a seeker to attack critical time sensitive moving maritime or relocatable land targets.

Future PrSM increments will provide increased lethality against hardened targets and extend range capability.

FY 2025 Base dollars in the amount of $184.046 million supports continuation of PrSM Increment 1 Engineering and Manufacturing Development (EMD) and Increment 2 technology maturation risk reduction efforts leading to system level prototype flights.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Increment 1: Engineering and Manufacturing Development (EMD)	167.628	154.402	63.975

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 0605231A / *Precision Strike Missile (PrSM)*	**Project (Number/Name)** CO3 / *Precision Strike Missile (PrSM)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: EMD activities to develop the Army's next generation missile capability that doubles volume of fire, meets range requirements by exceeding 400km, provides required lethality for both point and area targets, ensures survivability, meets cluster munition policy requirements, and provides an open system approach. PrSM provides field artillery units with a deep-strike capability while supporting Brigade, Division, Corps, Army, Theater, Joint and Coalition forces in full, limited, or expeditionary operations. ***FY 2024 Plans:*** The program will continue Production Qualification Testing (PQT) flight testing in FY 2024 and focus on system level hardware/ software integration, performance and safety. PQT-5 flight test will be a Limited User Test (LUT) (2 missile flight) in 2Q FY 2024. Upon successful completion of the LUT, PrSM will staff a request for Urgent Materiel Release (UMR). After the LUT the program will shift focus to integration with the M270A2 launcher and the new Common Fire Control System (CFCS). Additional effort will focus on hardware builds and training material in preparation for (10) Initial Operational Test & Evaluation (IOT&E) flight tests occurring in early FY 2025. ***FY 2025 Plans:*** Efforts will focus on hardware builds and training material in preparation for (10) Initial Operational Test & Evaluation (IOT&E) flight tests occurring in late FY 2025. Additional FY 2025 efforts include the completion of PQT flight testing, integration with the M270A2 launcher and the new Common Fire Control System (CFCS), cyber security requirements to achieve Full Materiel Release (FMR), and preparation for MS C. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The $90.427 million decrease from FY 2024 to FY 2025 reflects the program completing the EMD phase and transitioning to production and deployment phase at Milestone C planned for 4Q FY 2025.			
Title: Increment 2 Integration ***Description:*** Activities to integrate Science and Technology (S&T) seeker technology into PrSM Increment 1 will result in an Increment 2 missile. ***FY 2024 Plans:*** FY 2024 activities focus on meeting an Army Futures Command Directed Requirement of an FY 2027 Early Operational Capability (EOC). These activities include an Initial Design Review (IDR), Design Verification Testing (DVT), launcher software integration, and hardware in the loop activities. The FY 2024 events are in preparation for the PrSM Increment 2 demonstration flight tests that begin 4Q FY 2024. ***FY 2025 Plans:***	82.406	118.384	120.071

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 0605231A / *Precision Strike Missile (PrSM)*	**Project (Number/Name)** CO3 / *Precision Strike Missile (PrSM)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 activities support system prototype flight tests against maritime targets and PrSM Increment 2 Preliminary Design Review (PDR). System prototype tests inform the EOC contract award decision scheduled in late FY 2025 in order to begin delivery of EOC missiles by FY 2027. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The $1.687 million increase from FY 2024 to FY 2025 supports continued development and test activities to achieve Technology Readiness Level - 6 at the system level.			
Accomplishments/Planned Programs Subtotals	250.034	272.786	184.046

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
• C29600: *PRECISION STRIKE MISSILE (PRSM)*	162.876	384.071	492.566	-	492.566	539.992	604.286	604.268	610.310	0.000	3,398.369

Remarks

D. Acquisition Strategy

The PrSM program was designated as an Acquisition Category 1B in 2017. In 2018, Army leaders directed PrSM to accelerate the program and provide an EOC by FY 2023. The program awarded an Enhanced TMRR (E-TMRR) contract to reduce risk, conduct prototype flight-testing and conduct several Engineering and Manufacturing Development (EMD) activities to accelerate development. In 2020, Army senior leaders approved program acceleration using a single vendor. The program is executing E-TMRR as a sole-source effort to demonstrate threshold program requirements and complete sub-assembly qualification activities. The contractor conducted seven (7) successful flight tests to date and completed sub-assembly qualification testing while establishing a pilot production line.

The program received Milestone B approval in FY 2021 and awarded an EMD and initial EOC contract. The program is executing to contract and delivered EOC missiles in 1QFY 2024. With the delivery of initial EOC 1 missiles, the program is conducting PQT flight tests to qualify the production line before conducting a Production Readiness Review (PRR). The PRR will confirm the production line is qualified to support production of continued EOC and Initial Operational Test and Evaluation missiles. EOC missiles are contracted ahead of a Milestone C decision in FY 2025.

In January 2021, the Army Requirements Oversight Council (AROC) validated the PrSM Increment 2 Capabilities Development Document (CDD) Annex A. Additionally on 6 July 2022, the Commanding General Army Futures Command signed a Directed Requirement for PrSM Increment 2 missiles. The Directed Requirement requires the delivery of EOC missiles beginning in FY 2027. In FY 2022, the program awarded a Broad Agency Announcement contract vehicle to transition seeker technology from Development Command (DEVCOM) into PrSM for Increment 2. In November 2022, the Army Acquisition Executive determined that the Increment 2 program will follow the Major Capability Acquisition (MCA) Pathway. PrSM Increment 2 prototype testing begins in 2QFY26. An MDD occurred on 28 August 2023 and allowed the program to enter the Materiel Solution Analysis (MSA) phase.

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 0605231A / *Precision Strike Missile (PrSM)*	**Project (Number/Name)** CO3 / *Precision Strike Missile (PrSM)*

The Army has prioritized PrSM Increment 4 (extended range with seeker) ahead of PrSM Increment 3 (Modular Payload).

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 0605231A / *Precision Strike Missile (PrSM)*	**Project (Number/Name)** CO3 / *Precision Strike Missile (PrSM)*	

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	Various : RSA, AL	5.442	4.642	Apr 2023	5.972	Apr 2024	6.098	Apr 2025	-		6.098	0.000	22.154	-
		Subtotal	5.442	4.642		5.972		6.098		-		6.098	0.000	22.154	N/A

Remarks

RSA - Redstone Arsenal, Alabama

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
PrSM Increment 1 EMD - 1 Vendor (Lockheed Martin)	SS/FFP	LMMFCS : Grand Prairie, TX	114.068	126.207	Jan 2023	108.339	Jan 2024	44.055	Nov 2024	-		44.055	0.000	392.669	-
PrSM Increment 2 - 1 Vendor (Lockheed Martin)	SS/CPIF	LMMFCS : Grand Prairie, TX	20.825	46.416	Oct 2022	75.486	Oct 2023	61.018	Nov 2024	-		61.018	0.000	203.745	-
PrSM Increment 2 Seeker Integration	MIPR	DEVCOM AvMC : RSA, AL	22.134	23.514	Dec 2022	27.438	Dec 2023	26.416	Dec 2024	-		26.416	0.000	99.502	-
Development Engineering Support	MIPR	AMCOM/DEVCOM AvMC : RSA, AL	5.134	11.083	Nov 2022	8.442	Nov 2023	8.140	Jan 2025	-		8.140	0.000	32.799	-
Increment 1 - Software Development	MIPR	S3I : RSA, AL	-	9.981	Feb 2023	6.151	Feb 2024	3.067	Feb 2025	-		3.067	0.000	19.199	-
Increment 2 - Software Development	MIPR	S3I : RSA, AL	-	1.500	Feb 2023	3.336	Feb 2024	2.409	Feb 2025	-		2.409	0.000	7.245	-
A-PNT	MIPR	DEVCOM AvMC : RSA, AL	-	9.999	Dec 2022	13.148	Dec 2023	11.800	Dec 2024	-		11.800	0.000	34.947	-
		Subtotal	162.161	228.700		242.340		156.905		-		156.905	0.000	790.106	N/A

Remarks

AMCOM - Aviation and Missile Command; A-PNT - Assured-Position, Navigation and Timing; DEVCOM AvMC - U.S. Army Combat Capabilities Development Command Aviation & Missile Command; LMMFCS - Lockheed Martin Missiles and Fire Control System; RSA - Redstone Arsenal, Alabama; S3I - Systems Simulation, Software and Integration; TX - Texas

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 0605231A / *Precision Strike Missile (PrSM)*	Project (Number/Name) CO3 / *Precision Strike Missile (PrSM)*	

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
SETA Support	SS/T&M	Various; Competitive SETA Contract Award in Aug 2021 : RSA, AL	4.169	5.574	Dec 2022	6.240	Dec 2023	3.929	Dec 2024	-		3.929	0.000	19.912	-
		Subtotal	4.169	5.574		6.240		3.929		-		3.929	0.000	19.912	N/A

Remarks

RSA - Redstone Arsenal, AL; SETA - Systems Engineering and Technical Assistance

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 1 - Test Support	MIPR	WSMR; RTC : WSMR,NM; RSA, AL; VSFB, CA	-	8.718	Dec 2022	14.484	Dec 2023	14.761	Dec 2024	-		14.761	0.000	37.963	-
Increment 2 - Test Support	MIPR	WSMR; RTC : WSMR,NM; RSA, AL; EAFB, FL	-	2.400	Dec 2022	3.750	Dec 2023	2.353	Dec 2024	-		2.353	0.000	8.503	-
		Subtotal	-	11.118		18.234		17.114		-		17.114	0.000	46.466	N/A

Remarks

RTC - Redstone Test Center; RSA - Redstone Arsenal, Alabama; WSMR, NM - White Sands Missile Range, New Mexico; VSFB - Vandenberg Space Force Base, California; EAFB - Eglin Air Force Base, Florida

	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	171.772	250.034		272.786		184.046		-		184.046	0.000	878.638	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 0605231A / *Precision Strike Missile (PrSM)*	**Project (Number/Name)** CO3 / *Precision Strike Missile (PrSM)*

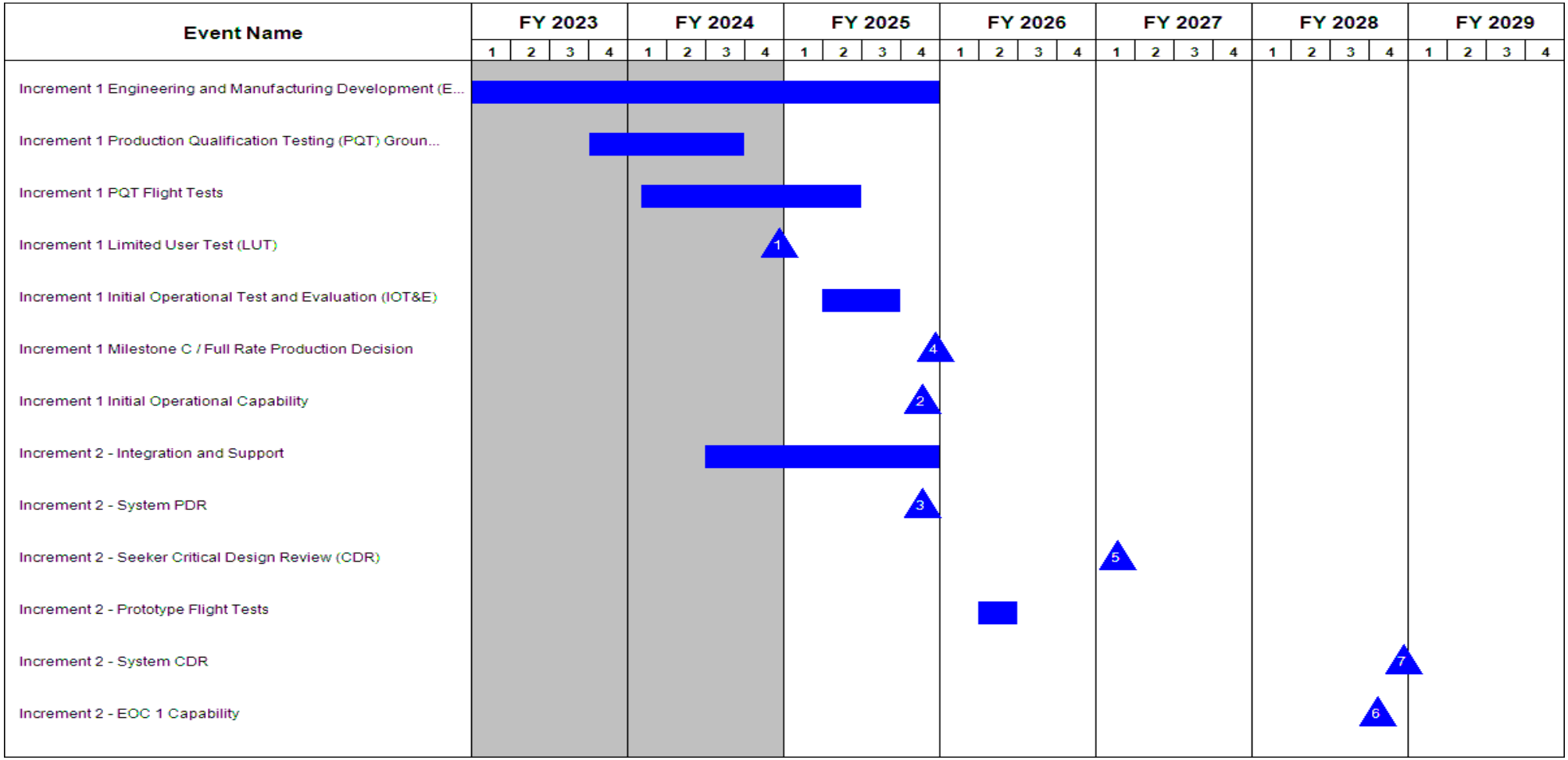


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605231A / *Precision Strike Missile (PrSM)*	**Project (Number/Name)** CO3 / *Precision Strike Missile (PrSM)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Increment 1 Technology Maturation and Risk Reduction (TMRR) Phase	1	2020	4	2021
Increment 1 Milestone B	4	2021	4	2021
Increment 1 Engineering and Manufacturing Development (EMD) Phase	1	2022	4	2025
Increment 1 Production Qualification Testing (PQT) Ground / Component / Safety	4	2023	3	2024
Increment 1 PQT Flight Tests	1	2024	2	2025
Increment 1 Limited User Test (LUT)	4	2024	4	2024
Increment 1 Initial Operational Test and Evaluation (IOT&E)	2	2025	3	2025
Increment 1 Milestone C / Full Rate Production Decision	4	2025	4	2025
Increment 1 Initial Operational Capability	4	2025	4	2025
Increment 2 - Integration and Support	3	2024	4	2025
Increment 2 - System PDR	4	2025	4	2025
Increment 2 - Seeker Critical Design Review (CDR)	1	2027	1	2027
Increment 2 - Prototype Flight Tests	2	2026	2	2026
Increment 2 - System CDR	4	2028	4	2028
Increment 2 - EOC 1 Capability	4	2028	4	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 0605232A *I Hypersonics 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	-	533.520	900.920	538.017	-	538.017	230.232	145.153	149.527	151.021	0.000	2,648.390
HX2: *Hypersonic Weapon (LRHW)*	-	533.520	900.920	538.017	-	538.017	230.232	145.153	149.527	151.021	0.000	2,648.390

A. Mission Description and Budget Item Justification

This funding supports the fielding of critical enabling technologies and capabilities that address near-term, and mid-term threats and is directly aligned to the Army Long Range Precision Fires modernization priority.

This includes the development and prototype fielding of the LRHW to defeat Anti Access/Area Denial (A2/AD) capabilities, suppress adversary Long Range Fires, and engage other high payoff/time critical targets. The Army is working collaboratively with the Navy in the development of the LRHW and conducting Joint Flight Campaign (JFC) tests to evaluate overall system performance with added focus on missile body and payload performance.

The LRHW system consists of the All Up Rounds (AUR) plus Canister (AUR+C) which includes the Common Hypersonic Glide Body (CHGB) with the Navy 34.5 inch booster, the Battery Operations Center (BOC) for command and control (C2), and the Transporter Erector Launcher (TEL). An LRHW Battery contains 8 AUR+C, 1 BOC, and 4 TELs each carrying 2 AUR+C. Additionally, the LRHW will use a modified version of an existing C2 network, the Advanced Field Artillery Tactical Data System (AFATDS).

Continued RDT&E investment is required beyond the initial prototype Battery to meet objective requirements and to maintain overmatch against evolving threats. Through implementation of planned technology insertions, the program will increase capability, upgrade the system to address obsolescence, and upgrade platform, launcher, and weapon control systems updates transition mature technologies from S&T. A robust test plan is also required to validate these developmental changes and provide for Soldier operational testing of new capability.

The total cost of the LRHW Ground Support Equipment (GSE) Middle Tier of Acquisition (MTA) effort is $1,476 million from FY23 to FY28, including RDT&E ($452M) and procurement ($1,025M) of prototype units. The remainder of the LRHW GSE MTA is fully funded across the Future Years Defense Program.

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 0605232A / *Hypersonics EMD*		
B. Program Change Summary ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Previous President's Budget	633.499	900.920	367.153	-	367.153
Current President's Budget	533.520	900.920	538.017	-	538.017
Total Adjustments	-99.979	0.000	170.864	-	170.864
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-76.856	-			
• SBIR/STTR Transfer	-23.123	-			
• Adjustments to Budget Years	-	-	170.864	-	170.864

Change Summary Explanation

Increased funding to address incremental funding for Battery 2 AUR + C (with associated CHGBs), AUR test assets for future developmental and operational test of technology insertions, test planning and execution due to updated cost position.

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 0605232A / *Hypersonics EMD*	Project (Number/Name) HX2 / *Hypersonic Weapon (LRHW)*	

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
HX2: *Hypersonic Weapon (LRHW)*	-	533.520	900.920	538.017	-	538.017	230.232	145.153	149.527	151.021	0.000	2,648.390
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding supports the fielding of critical enabling technologies and capabilities that address near-term, and mid-term threats and is directly aligned to the Army Long Range Precision Fires modernization priority.

This includes the development and prototype fielding of the LRHW to defeat Anti Access/Area Denial (A2/AD) capabilities, suppress adversary Long Range Fires, and engage other high payoff/time critical targets. The Army is working collaboratively with the Navy in the development of the LRHW and conducting Joint Flight Campaign (JFC) tests to evaluate overall system performance with added focus on missile body and payload performance.

The LRHW system consists of the All Up Rounds (AUR) plus Canister (AUR+C) which includes the Common Hypersonic Glide Body (CHGB) with the Navy 34.5 inch booster, the Battery Operations Center (BOC) for command and control (C2), and the Transporter Erector Launcher (TEL). An LRHW Battery contains 8 AUR+C, 1 BOC, and 4 TELs each carrying 2 AUR+C. Additionally, the LRHW will use a modified version of an existing C2 network, the Advanced Field Artillery Tactical Data System (AFATDS).

Continued RDT&E investment is required beyond the initial prototype Battery to meet objective requirements and to maintain overmatch against evolving threats. Through implementation of planned technology insertions, the program will increase capability, upgrade the system to address obsolescence, and upgrade platform, launcher, and weapon control systems updates transition mature technologies from S&T. A robust test plan is also required to validate these developmental changes and provide for Soldier operational testing of new capability.

The total cost of the LRHW Ground Support Equipment (GSE) Middle Tier of Acquisition (MTA) effort is $1,476 million from FY23 to FY28, including RDT&E ($452M) and procurement ($1,025M) of prototype units. The remainder of the LRHW GSE MTA is fully funded across the Future Years Defense Program.

FY 2025 Base funding in the amount of $538.017M provides for incremental funding of Battery 2 AUR+C and AUR+C test assets for future test events, test activities, and integration of Technology Insertions.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Long Range Hypersonic Weapon	432.757	-	-
Description: Funding is provided for planning, prototype manufacturing, testing and delivery of the Long Range Hypersonic Weapon and consists of four lines of 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 0605232A / *Hypersonics EMD*	**Project (Number/Name)** HX2 / *Hypersonic Weapon (LRHW)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
CHGB with Thermal Protection System (TPS) Development, purchase of hardware, integration, assembly, test and delivery of the Common Hypersonic Glide Body (CHGB) system for the All Up Round plus Canister (AUR+C). Remain technologically capable to support CHGB production for requiring services. All Up Round plus Canister (AUR+C) Technology development, purchase of hardware, integration, assembly, test and delivery of the All Up Round plus Canister (AUR +C). Ground Support Equipment (GSE) Provides for planning and integration efforts for LRHW GSE, LRHW technology development and deployment, and additional training development (enhances existing and incorporates detailed operator and maintainer skills). Designs training aid devices, simulations, and simulator in accordance with the system training plan. Develops the overall Systems Integration and training for the All Up Round plus Canister (AUR+C) for the LRHW program. Test and Evaluation Test and evaluation includes test planning, execution and analysis of Joint Flight Campaigns (JFC) and Army operational and developmental tests. Also provides required support for environmental testing.			
Title: All Up Round and Canister (AUR+C)	-	354.740	348.667
Description: All Up Round plus Canister (AUR+C) Technology development, purchase of hardware, integration, assembly, test and delivery of the All Up Round plus Canister (AUR +C). ***FY 2024 Plans:*** FY 2024 Base provides incremental funding for AUR+C Inert Training canisters and begins delivery of first articles. Continues incremental funding of Battery 2 (BTY2) AUR+C basic load tactical rounds and AUR+C tactical reload rounds for BTY1 and BTY2. Continues incremental funding of test/training/certification rounds for Joint Flight Campaign #5 (JFC5) and JFC6 events. Begins incremental funding of test/training/certification rounds for JFC7. Provides for prime contractor support of test planning and execution. Purchases spare AUR+C subsystems and assemblies in support of the LRHW Life Cycle Sustainment program. Purchases AUR+C Simulators for missile-in-the-loop future technology development and integration. ***FY 2025 Plans:*** FY 2025 AUR+C funding delivers AUR+C Inert Training canisters. Continues incremental funding for and begins delivery of AUR +C basic load tactical rounds. Continues incremental funding for tactical reload rounds. Continues incremental funding for 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 0605232A / *Hypersonics EMD*	**Project (Number/Name)** HX2 / *Hypersonic Weapon (LRHW)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
begins delivery of Joint Flight Campaign test/training/certification rounds. Provides for prime contractor support of test planning and execution. Continues incremental funding for spare AUR+C components, subsystems and assemblies in support of the LRHW Life Cycle Sustainment program ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease from FY24 to FY25 is due lower quantities of RDTE funded work in progress AURs in FY25 and transition of Battery 3 basic tactical rounds and reloads to Missile Procurement, Army (MIPA) beginning in FY25.			
Title: Common Hypersonic Glide Body (CHGB) ***Description:*** CHGB with TPS Development, purchase of hardware, integration, assembly, test and delivery of the Common Hypersonic Glide Body (CHGB) system for the All Up Round plus Canister (AUR+C). Remain technologically capable to support CHGB production for requiring services. ***FY 2024 Plans:*** FY 2024 Base funds continue the development of the LRHW CHGB. Supports further development and demonstration of LRHW system components and training; prime contractor support of Ground and Flight (Joint Flight Campaign) testing and overall system integration of Technology Insertions. Incrementally funds CHGBs for basic load and reload AUR+C and test/training/certification AUR+Cs. Enhances training in accordance with system training plan. ***FY 2025 Plans:*** FY 2025 Base funds continue the development of the LRHW CHGB. Begins deliveries of CHGB to complete AUR+C assembly and integration of basic load tactical and reload rounds. Supports further development and demonstration of LRHW system components and training; prime contractor support of Joint Flight Campaign testing and overall system integration of Technology Insertions. Incrementally funds CHGBs for basic load and reload AUR+C and test/training/certification AUR+Cs. Enhances training in accordance with system training plan. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease from FY24 to FY25 is due to completing material component purchases of RDTE funded CHGBs in FY24 and transition of Battery 3 basic tactical rounds and reloads to MIPA beginning in FY25.	-	358.680	79.356
Title: Ground Support Equipment (GSE) ***Description:*** Provides for planning and integration efforts for LRHW GSE, LRHW technology development and deployment, and additional training development (enhances existing and incorporates detailed operator and maintainer skills). Designs training aid devices, simulations, and simulator in accordance with the system training plan. Develops the overall Systems Integration and training for the All Up Round plus Canister (AUR+C) for the LRHW program.	-	5.930	17.327

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 0605232A / *Hypersonics EMD*	**Project (Number/Name)** HX2 / *Hypersonic Weapon (LRHW)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: FY 2024 Base funds continue the development of the LRHW battery GSE. Supports further development and demonstration of LRHW system components, to include training enhancements and prime contractor support for Ground and Flight test planning and execution. This funding also supports the operational maintainability of fielded equipment and implements changes to GSE resulting from test activities. ***FY 2025 Plans:*** FY 2025 Base funds continue the development of the LRHW battery GSE. Supports further development and demonstration of LRHW system components, to include training enhancements and prime contractor support for Ground and Flight test planning and execution. This funding also supports the operational maintainability of fielded equipment and implements changes to GSE resulting from test activities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase from FY24 to FY25 is due to increased GSE software development costs associated with integrating technology insertion changes into the command and control software.			
Title: Test and Evaluation ***Description:*** Test and Evaluation Test and evaluation includes test planning, execution and analysis of Joint Flight Campaigns (JFC) and Army operational and developmental tests. Also provides required support for environmental testing. ***FY 2024 Plans:*** FY 2024 Base funds continue the testing cycle with Joint Flight Campaigns (JFC) 5. JFC-5 requirements include the final planning, data collection infrastructure, and full execution of the test to include soldier TDY and LRHW system transportation costs. ***FY 2025 Plans:*** FY 2025 Base funds continue the testing cycle with Joint Flight Campaigns (JFC) 6 requirements and full execution of the test to include solider TDY, LRHW system transportation costs, and developmental testing. JFC-6 requirements include the final planning and data collection infrastructure. Developmental testing includes: Cyber Table Tops, Cyber Vulnerability Penetration Assessment Planning, Electromagnetic Environmental Effects (E3) planning, execution and reporting. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease from FY24 to FY25 is due to a reduction in estimated test costs based on incorporating actual costs from previous test events into this budget estimate.	-	62.380	35.386
Title: System Engineering/Program Management	100.763	119.190	57.281

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 0605232A / *Hypersonics EMD*	**Project (Number/Name)** HX2 / *Hypersonic Weapon (LRHW)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: Includes the Government PM's office (civilian, SETA, and matrix personnel) and OGAs to support RDT&E efforts. This encompasses overall planning, direction, and control of the definition, development, and production of the system/program, including functions of logistics engineering and integrated logistics support. ***FY 2024 Plans:*** FY 2024 supports further analysis and assessments for development and demonstration of LRHW system components and training. Continues logistics analysis required for material release and sustainment and supports continued integration of Technical Insertions (TIs). ***FY 2025 Plans:*** FY 2025 supports further analysis and assessments for development and demonstration of LRHW system components and training. Continues logistics analysis required for material release and sustainment and supports continued integration of Technical Insertions (TIs). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease from FY24 to FY25 is due to a reduction in the technology insertion integration efforts as the design is implemented into prototype hardware contracts and due to a realignment of Program Management costs from RDTE to MIPA for the procurement of Battery 3 AUR+C in FY25.			
Accomplishments/Planned Programs Subtotals	533.520	900.920	538.017

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
• 0604182A: *Hypersonics*	309.068	43.435	0.000	-	0.000	-	-	-	-	0.000	352.503
• C72111: *LONG-RANGE HYPERSONIC WEAPON (LRHW)*	249.285	156.821	744.178	-	744.178	725.017	381.575	295.676	298.633	Continuing	Continuing

Remarks

D. Acquisition Strategy

Following the initial delivery of the first Long Range Hypersonic Weapons battery by the Rapid Capabilities and Critical Technologies Office (RCCTO), the Army will field two additional LRHW batteries in FY 2025 and FY 2027. System acquisition management will transition from RCCTO to Program Executive Office, Missiles and Space across FY 2023 and FY 2024. The acquisition authority for Batteries 2 and 3 has already transferred to PEO MS with the Acquisition Decision Memorandum in 4Q FY23 and transition will be fully completed when RCCTO delivers Battery 1 AURs and funds Battery 1 Contractor Logistics Support in FY 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 0605232A / *Hypersonics EMD*	**Project (Number/Name)** HX2 / *Hypersonic Weapon (LRHW)*

The Army Acquisition Executive (AAE) approved entry into the Middle Tier of Acquisition Rapid Fielding pathway for the GSE elements of the LRHW system in 4Q FY23. The approved GSE MTA program includes procurement of LRHW Batteries 2 and 3 GSE, conducting developmental and operational test events to prove out the design and ability of soldiers to operate the equipment in an operational environment, upgrade GSE software, and to integrate into planned technical insertions (TIs), which enhance capability, into the GSE. The GSE for Batteries 2 and 3 will be procured with Missile Procurement, Army funds on a FAR-based contract awarded in FY 2023. RDT&E funding in this line will support testing and integrating TIs.

The AAE also approved procuring AURs from the Navy, to include the CHGB and TPS. Funding in this RDT&E line will be utilized to deliver Battery 2 tactical basic load and reload AUR+Cs, Battery 1 tactical reload AUR+C, and AUR+C for operational and developmental test. It will also fund TI integration into the CHGB and AUR and provide software improvements. CHGBs are provided as Government Furnished Equipment to the Navy Prompt Strike AUR contracts through an Army sole source Other Transaction Authority (OTA) agreement. This OTA will be replaced in FY2024 with a FAR-based contract to be novated to Navy management 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 0605232A / *Hypersonics EMD*	Project (Number/Name) HX2 / *Hypersonic Weapon (LRHW)*	

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
LRHW Program Management and Operations Support	Various	Various : Various	5.484	8.430	Dec 2022	50.680	Oct 2023	19.489	Oct 2024	-		19.489	Continuing	Continuing	-
AUR+C: OGA	Various	Project Office Support : Huntsville, AL	-	1.378	Mar 2023	2.200	Jan 2024	4.566	Jan 2025	-		4.566	0.000	8.144	-
CHGB: OGA	Various	Project Office Support : Huntsville, AL	-	14.940	Nov 2022	6.770	Jan 2024	6.962	Jan 2025	-		6.962	0.000	28.672	-
GSE: OGA	Various	Project Office Support : Huntsville, AL	-	9.040	Feb 2023	5.930	Jan 2024	17.327	Jan 2025	-		17.327	0.000	32.297	-
		Subtotal	5.484	33.788		65.580		48.344		-		48.344	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
Systems Engineering	C/Various	Various : Various	-	92.332	Feb 2023	68.510	Jan 2024	37.796	Jan 2025	-		37.796	0.000	198.638	-
CHGB: Dynetics Technical Solutions (DTS)	SS/CPFF	Dynetics Technical Solutions : Huntsville, AL	-	64.464	Jan 2023	259.610	Oct 2023	50.076	Oct 2024	-		50.076	0.000	374.150	-
TPS: Dynetics	C/CPFF	Dynetics : Huntsville, AL	-	86.344	Mar 2023	92.300	Dec 2023	22.318	Nov 2024	-		22.318	0.000	200.962	-
AUR+C: Lockheed Martin	SS/ Various	Lockheed Martin : Various	-	243.205	Nov 2022	352.540	Nov 2023	344.097	Nov 2024	-		344.097	0.000	939.842	-
GSE: Lockheed Martin	SS/CPFF	Lockheed Martin : Huntsville, AL	-	10.587	Sep 2023	-		-		-		-	0.000	10.587	-
		Subtotal	-	496.932		772.960		454.287		-		454.287	0.000	1,724.179	N/A

Remarks

Systems Engineering Cost Element includes integration of planned Technology Insertions.

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 0605232A / *Hypersonics EMD*	Project (Number/Name) HX2 / *Hypersonic Weapon (LRHW)*	

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 Test	MIPR	Various : Various	-	2.800	Dec 2022	58.270	Nov 2023	24.479	Nov 2024	-		24.479	Continuing	Continuing	-
Government Test Support	Various	Various : Huntsville, AL	-	-		4.110	Nov 2023	10.907	Nov 2024	-		10.907	0.000	15.017	-
		Subtotal	-	2.800		62.380		35.386		-		35.386	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	5.484	533.520		900.920		538.017		-		538.017	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 0605232A / *Hypersonics EMD*	**Project (Number/Name)** HX2 / *Hypersonic Weapon (LRHW)*

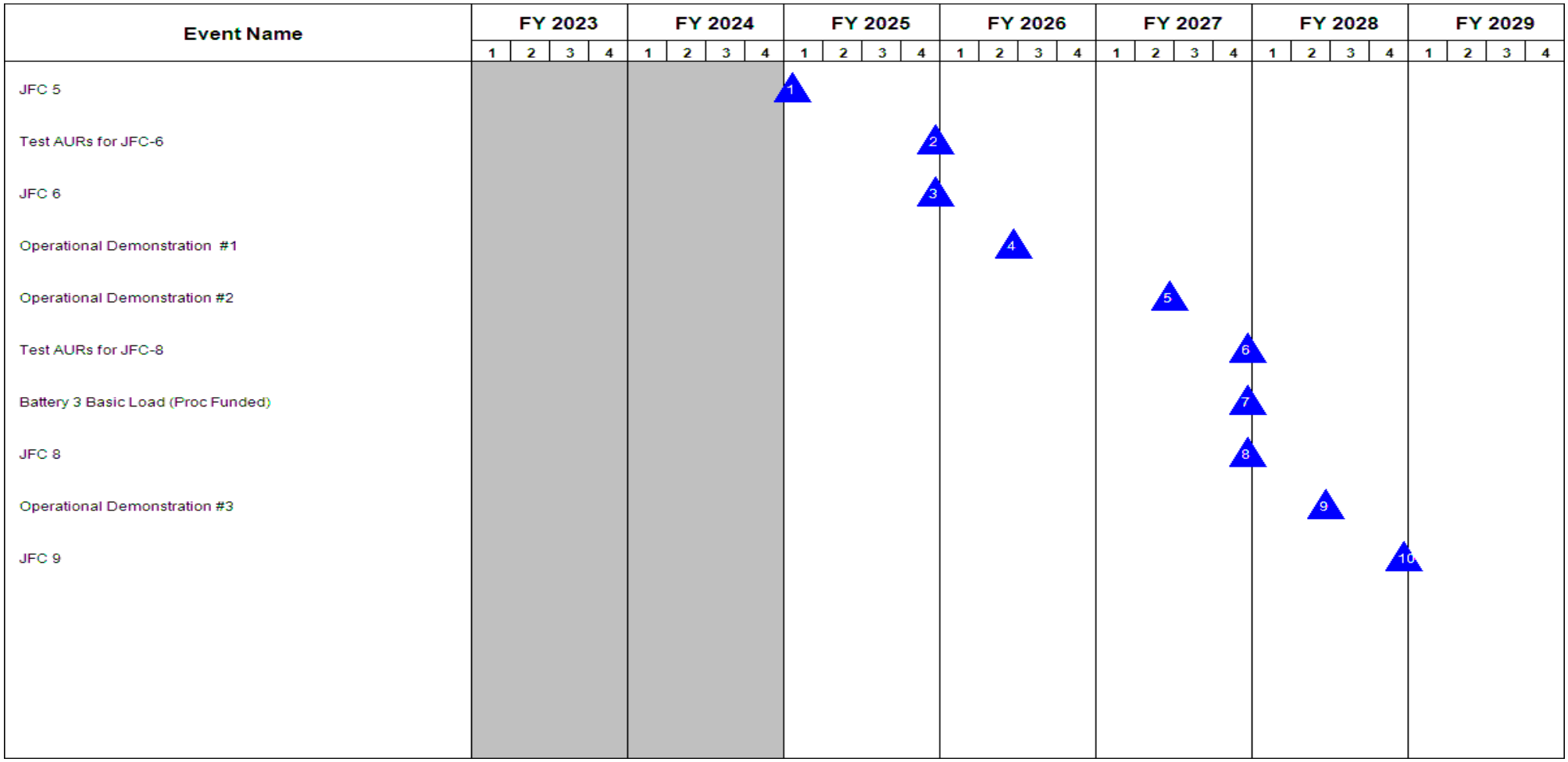


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605232A / *Hypersonics EMD*	**Project (Number/Name)** HX2 / *Hypersonic Weapon (LRHW)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
JFC 5	1	2025	1	2025
Test AURs for JFC-6	4	2025	4	2025
JFC 6	4	2025	4	2025
Operational Demonstration #1	2	2026	2	2026
Operational Demonstration #2	2	2027	2	2027
Test AURs for JFC-8	4	2027	4	2027
Battery 3 Basic Load (Proc Funded)	4	2027	4	2027
JFC 8	4	2027	4	2027
Operational Demonstration #3	2	2028	2	2028
JFC 9	4	2028	4	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 0605233A *I Accessions Information Environment (AIE)*							
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	-	9.720	27.361	32.265	-	32.265	32.864	34.467	35.970	5.811	0.000	178.458
CP8: *Accessions Information Environment (AIE)*	-	9.720	27.361	32.265	-	32.265	32.864	34.467	35.970	5.811	0.000	178.458

A. Mission Description and Budget Item Justification

AIE is a new accessioning and recruiting enterprise Customer Relationship Management (CRM) software solution serving the Army's recruiting mission specifically supporting recruiters as they meet with future Soldiers and organizations in their community. AIE manages the process from prospect generation to the point of Soldiers arriving at the initial military training. AIE supports Army's accessioning process through its four missions: (1) Enlist Soldiers, (2) Commission Officers through the Reserve Officers' Training Corps (ROTC) program, (3) In-Service requirements, and (4) Direct Commission. AIE will replace 11 legacy systems and 33 modules of the active Accessions IT systems that have been in existence for over 30 years. AIE provides the baseline solution for future recruitment innovation and fixes legacy problems of frequent outages and unstable performance directly impairing the Army's ability to complete its recruiting mission.

AIE is a critical Army modernization effort to re-engineer the business processes for Army accessioning and recruiting and to ensure the Army can acquire the best qualified talent, meet manning requirements, and achieve readiness objectives. The delivery of AIE will provide an enterprise level capability for recruiting Army Soldiers across all components, enabling a transparent and efficient workforce. AIE is a COTS based information technology (IT) software system that will modernize the accessions environment. AIE will leverage an agile approach to deliver eight core capabilities: lead generation & management, prospecting, interviewing, processing, pay & incentives, intelligence, marketing, and training/leader development.

FY 2025 Base dollars in the amount of $32.265 million support development configuration of the AIE solution including agile quarterly planning sessions, Minimum Viable Capability Release (MVCR) design, agile development teams, program management support, business process reengineering, interface development, integration, cybersecurity, systems engineering, developer and test software licenses, test and evaluation, and ongoing analysis of potential alternatives to support solution requirements. AIE's FY 2025 RDT&E supports AIE's incremental software releases throughout FY 2025 and the 2.0 In-Service and Direct Commission software release planned for 4QFY25. Key events leading up to the 2.0 In-Service Mission and Direct Commission software release include exploratory and automated regression testing, incremental quarterly software releases, an Army Test and Evaluation Command (ATEC) operational assessment, and multiple system cybersecurity reviews. The 2.0 In-Service and Direct Commission software release will add lead generation/management, intelligence, marketing, prospecting, interviewing, and processing capabilities for a unique mission set supported by approximately 4,000 recruiters.

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 0605233A / *Accessions Information Environment (AIE)*

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	10.088	27.361	27.942	-	27.942
Current President's Budget	9.720	27.361	32.265	-	32.265
Total Adjustments	-0.368	0.000	4.323	-	4.323
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.368	-			
• Adjustments to Budget Years	-	-	4.323	-	4.323

Change Summary Explanation

Increased funding due to onboarding of two additional development teams following the release of AIE 1.0 Enlisted Mission capability in 4QFY24 and development of accelerated 2.0 In-Service and Direct Commission Minimum Viable Capability Release (MVCR) software delivery in 4QFY25.

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 0605233A / *Accessions Information Environment (AIE)*	Project (Number/Name) CP8 / *Accessions Information Environment (AIE)*	

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
CP8: *Accessions Information Environment (AIE)*	-	9.720	27.361	32.265	-	32.265	32.864	34.467	35.970	5.811	0.000	178.458
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

AIE is a new accessioning and recruiting enterprise Customer Relationship Management (CRM) software solution serving the Army's recruiting mission specifically supporting recruiters as they meet with future Soldiers and organizations in their community. AIE manages the process from prospect generation to the point of Soldiers arriving at the initial military training. AIE supports Army's accessioning process through its four missions: (1) Enlist Soldiers, (2) Commission Officers through the Reserve Officers' Training Corps (ROTC) program, (3) In-Service requirements, and (4) Direct Commission. AIE will replace 11 legacy systems and 33 modules of the active Accessions IT systems that have been in existence for over 30 years. AIE provides the baseline solution for future recruitment innovation and fixes legacy problems of frequent outages and unstable performance directly impairing the Army's ability to complete its recruiting mission.

AIE is a critical Army modernization effort to re-engineer the business processes for Army accessioning and recruiting and to ensure the Army can acquire the best qualified talent, meet manning requirements, and achieve readiness objectives. The delivery of AIE will provide an enterprise level capability for recruiting Army Soldiers across all components, enabling a transparent and efficient workforce. AIE is a COTS based information technology (IT) software system that will modernize the accessions environment. AIE will leverage an agile approach to deliver eight core capabilities: lead generation & management, prospecting, interviewing, processing, pay & incentives, intelligence, marketing, and training/leader development.

FY 2025 Base dollars in the amount of $32.265 million support development configuration of the AIE solution including agile quarterly planning sessions, Minimum Viable Capability Release (MVCR) design, agile development teams, program management support, business process reengineering, interface development, integration, cybersecurity, systems engineering, developer and test software licenses, test and evaluation, and ongoing analysis of potential alternatives to support solution requirements. AIE's FY 2025 RDT&E supports AIE's incremental software releases throughout FY 2025 and the 2.0 In-Service and Direct Commission software release planned for 4QFY25. Key events leading up to the 2.0 In-Service Mission and Direct Commission software release include exploratory and automated regression testing, incremental quarterly software releases, an Army Test and Evaluation Command (ATEC) operational assessment, and multiple system cybersecurity reviews. The 2.0 In-Service and Direct Commission software release will add lead generation/management, intelligence, marketing, prospecting, interviewing, and processing capabilities for a unique mission set supported by approximately 4,000 recruiters.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Accessions Information Environment (AIE)	9.720	27.361	-
Description: AIE is a new enterprise Customer Relationship Management (CRM) software solution serving the Army's recruiting mission specifically supporting recruiters as they meet with future Soldiers and organizations in their community. AIE manages the process from prospect generation to the point of Soldiers arriving at the initial military training. AIE supports Army's accessioning			

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 0605233A / *Accessions Information Environment (AIE)*	**Project (Number/Name)** CP8 / *Accessions Information Environment (AIE)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
process through its four missions: (1) Enlist Soldiers, (2) Commission Officers through the Reserve Officers' Training Corps (ROTC) program, (3) In-Service requirements, and (4) Direct Commission. AIE will replace 11 legacy systems and 33 modules of the active Accessions IT systems that have been in existence for over 30 years. AIE provides the baseline solution for future recruitment innovation and fixes legacy problems of frequent outages and unstable performance directly impairing the Army's ability to complete its recruiting mission. Program awarded an Other Transaction Authority (OTA) Firm Fixed Price agreement in April 2019 with defined milestone payments based on technical performance achievements. In late FY 2022, program transitioned to a Cost-Plus Fixed Fee, agile development strategy. Configuration of core capabilities will be ultimately deployed to 25,000+ end users. ***FY 2024 Plans:*** FY 2024 RDT&E funding supports iterative design configuration for the AIE solution including requirements analysis, business process reengineering, interface development, integration, cybersecurity, systems engineering, developer licenses, test and evaluation, and program management support. Key FY24 activity includes finishing Wave 1 development, deploying the Wave 1 AIE system to the operational environment, and beginning development of Wave 2 capabilities in support of planned Wave 2 deployment. A breakout of the $27.361 million FY 2024 Base RDT&E is shown below. Management Services - $3.458 million - Funds program management support services contract. Includes AIE acquisition, schedule, systems engineering, cost, budget, programmatic, and all other support required to run AIE's program office. COTS Based Solution and Development - $23.081 million - Funds to be used for development and configuration of the AIE system. Includes funding for OTA through solution provider, developer software as a service licenses, and all other direct work required to build the AIE capability. Cybersecurity (RMF, FedRAMP, ATO) - $0.422 million - Funding required to ensure AIE meets Army cybersecurity requirements. Also funds support agreements to complete SCA-V assessments. Testing, Operational, and Developmental Support - $0.400 million - Funds support agreements with Army test support partners (ATEC/JITC). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease is due to expansion of program effort descriptions that follow.			
Title: Program Management Support Services	-	-	2.625

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 0605233A / *Accessions Information Environment (AIE)*	**Project (Number/Name)** CP8 / *Accessions Information Environment (AIE)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: Funds program management support services (PMSS) contract including on-going solution and development required to maintain overall AIE program office operations. ***FY 2025 Plans:*** Includes AIE acquisition, schedule, systems engineering, cost, budget, programmatic, and all other support required to run AIE's program office. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increase to incorporate expanded program efforts for greater transparency.			
Title: COTS Based Agile Development and Configuration ***Description:*** Funds the development and configuration of the AIE system. Includes funding CPFF OTA with solution provider, quarterly sprint planning sessions, agile development teams, developer software as a service licenses, and all other direct work required to build AIE capabilities. ***FY 2025 Plans:*** Key FY 2025 activities include quarterly sprint planning sessions associated with completion of the In-Service and Direct Commission capability, completion of cybersecurity assessments prior to the 2.0 In-Service and Direct Commission MVCR software release, exploratory and automated regression testing, and release of MVCR 2.0 to the production environment. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increase due to onboarding of two additional build teams following completion and deployment of the AIE 1.0 capability in 4QFY24 and development of 2.0 In-Service and Direct Commission MVCR software release in 4QFY25. This increase ensures that scheduled future software releases can be delivered as planned.	-	-	27.959
Title: Cybersecurity (RMF, FedRAMP, ATO) ***Description:*** Funding required to ensure AIE meets Army cybersecurity requirements. ***FY 2025 Plans:*** Includes partnering agency support of planned Security Control Assessor-Validator (SCA-V) and Cyber Vulnerability Investigations (CVI) events in FY 2025. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increase to incorporate expanded program efforts for greater transparency.	-	-	0.141
Title: Testing, Operational, and Development Support	-	-	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 0605233A / *Accessions Information Environment (AIE)*	**Project (Number/Name)** CP8 / *Accessions Information Environment (AIE)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: Funds support agreements with Army test support partners, i.e., Army Testing and Evaluation Command and Joint Interoperability Test Command, and industry development/configuration sub-contracts. ***FY 2025 Plans:*** - Continuous exploratory and automated regression testing in support of Agile development - Cybersecurity Evaluations - AIE is planning on an Army Combat Capabilities Development Command (CCDC) led Cooperative Vulnerability Identification and Security Control Assessment Validation, both in FY25 - Army Test and Evaluation Command (ATEC) - The program requires an ATEC Operational Assessment prior to the release of a new minimum viable capability release in 4QFY25 ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase due to additional test requirements prior to release of minimum viable capability release 2.0 planned for 4QFY25. Additional test support includes an ATEC operational assessment, continuous exploratory and automated regression testing, and adversarial assessment.			
Accomplishments/Planned Programs Subtotals	9.720	27.361	32.265

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
• B45000: *ACCESSIONS INFORMATION ENVIRONMENT (AIE)*	-	4.198	1.303	-	1.303	1.302	1.402	1.403	-	0.000	9.608
• OMA - OMA/331715000/ AIE: *Sustainment Support*	13.085	11.923	37.698	-	37.698	46.869	50.760	58.343	79.200	Continuing	Continuing

Remarks

1) B45000 OPA funding used to support software release related training and procurement of training materials.
2) AIE OMA funding used to support software as a service (SAAS) end-user licenses required for the AIE system to function. Other activities support by OMA funds include program management support services, Tier III help desk support, cloud hosting costs, and ServiceNow software licenses.

D. Acquisition Strategy

AIE is following the tailored Acquisition process for Defense Business Systems (DBS) and is currently designated as a Business System Category (BCAT) I program. AIE is acquiring a COTS based solution (application hosting and software as a service) to support the Army's Accessions Enterprise requirements. Effective 30 April 2019, a competitive prototype contract is in place to execute the pilot phase.

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 0605233A / *Accessions Information Environment (AIE)*	**Project (Number/Name)** CP8 / *Accessions Information Environment (AIE)*

The program uses an agile development and deployment methodology. AIE released a software preview to a select group of users in 1QFY24, marking the first use of AIE in a production environment. Smaller incremental software releases will start following the initial software preview. Major software releases to new end-user segments are planned as follows:

Major Software Releases:
1.0 Enlisted Mission Capability Release - 4QFY24
2.0 In-Service and Direct Commission Mission Capability Release - 4QFY25
3.0 ROTC Campus and Summer Mission Capability Release - 4QFY26
4.0 Accessions Support Capability Release - 4QFY27, ongoing incremental releases through system end of life (EOL)

FY 2024 - Complete development of the AIE system in preparation for initial deployment. AIE deployed two software previews to a small group of targeted users in 1QFY24. The Army will add additional key capabilities to the system through quarterly incremental software releases. The 1.0 Enlisted Mission software release is scheduled for 4QFY24. The 1.0 Enlisted Mission targeted user base includes recruiters from the US Army Recruiting Command (USAREC), Army National Guard (ARNG), and Center for Initial Military Training (CIMT). Release of 1.0 is expected to add approximately 12,000 end-users.

FY 2025 - Quarterly sprint planning sessions to support incremental software releases continue. 2.0 In-Service and Direct Commission MVCR deployment scheduled for 4QFY25. Funding supports agile development teams, program office, and required test and evaluation (T&E). Will add marketing, intelligence, lead generation/ management, prospecting, interviewing, and processing capabilities for the unique In-Service and Direct Commission mission set. Release of 2.0 is expected to add approximately 4,000 new end-users.

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 0605233A / *Accessions Information Environment (AIE)*	Project (Number/Name) CP8 / *Accessions Information Environment (AIE)*	

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
AIE - Management Services	C/FFP	Chenega Decision Services : Lorton, VA	0.770	0.969	Jun 2023	3.458	Jun 2024	2.625	Feb 2025	-		2.625	0.000	7.822	7.288
		Subtotal	0.770	0.969		3.458		2.625		-		2.625	0.000	7.822	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
AIE - COTS Based Solution Configuration and Development	C/FFP	Booz Allen Hamilton (FY25 TBD) : Herdon, VA	11.848	6.257	Apr 2023	23.081	Nov 2023	27.959	Nov 2024	-		27.959	0.000	69.145	75.510
		Subtotal	11.848	6.257		23.081		27.959		-		27.959	0.000	69.145	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
AIE - Cybersecurity - RMF, FedRAMP, ATO	MIPR	AvMC SCA-V Support : TBD	1.579	1.107	Oct 2022	0.422	Feb 2024	0.141	Feb 2025	-		0.141	0.000	3.249	3.861
		Subtotal	1.579	1.107		0.422		0.141		-		0.141	0.000	3.249	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
AIE - Testing, Operational and Developmental Support	MIPR	ATEC/JITC : Various	1.980	1.387	Jan 2023	0.400	Dec 2023	1.540	Dec 2024	-		1.540	0.000	5.307	15.929
		Subtotal	1.980	1.387		0.400		1.540		-		1.540	0.000	5.307	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 0605233A / *Accessions Information Environment (AIE)*	Project (Number/Name) CP8 / *Accessions Information Environment (AIE)*	

	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	16.177	9.720		27.361		32.265		-		32.265	0.000	85.523	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 0605233A / *Accessions Information Environment (AIE)*	**Project (Number/Name)** CP8 / *Accessions Information Environment (AIE)*

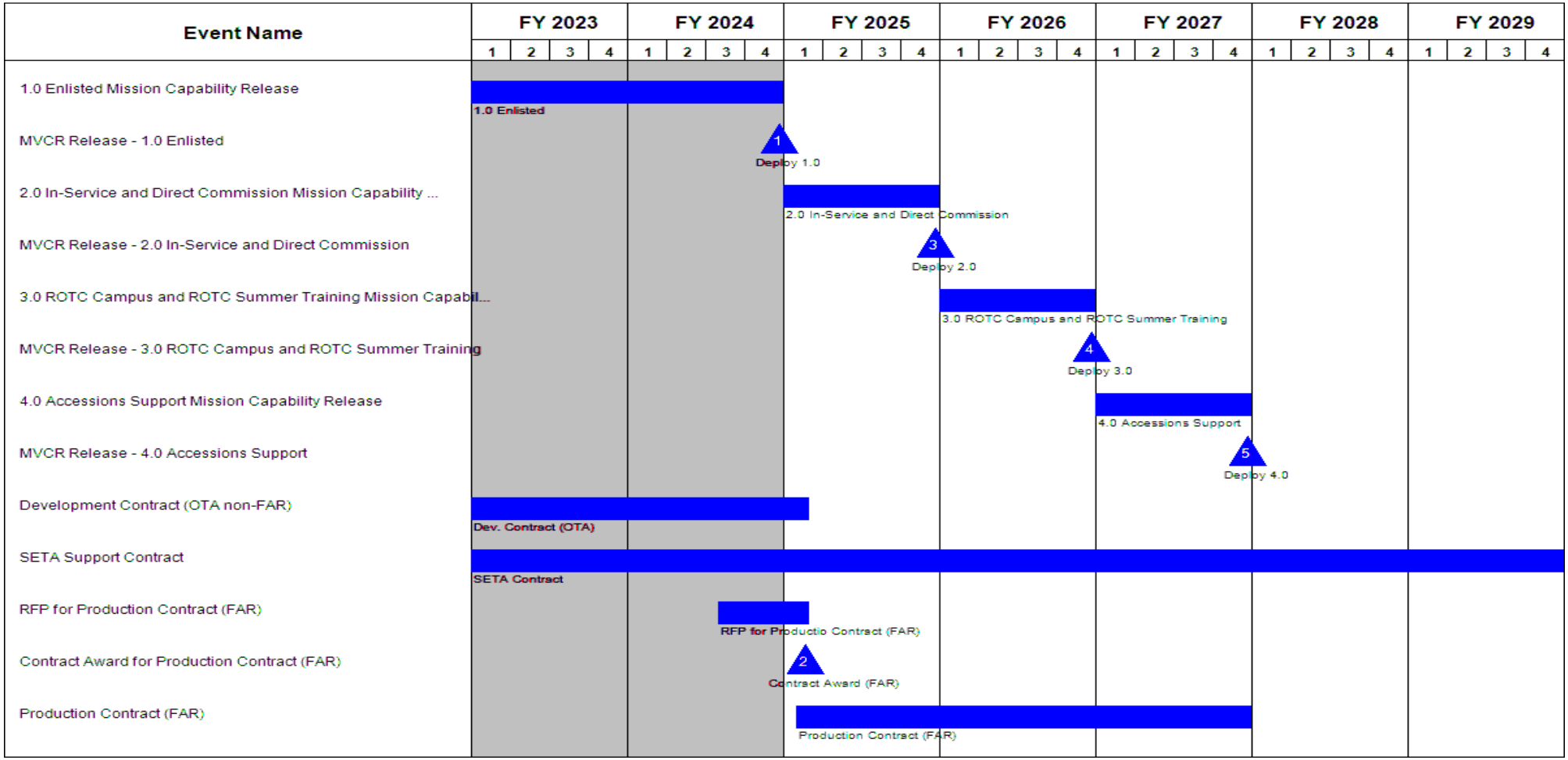


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605233A / *Accessions Information Environment (AIE)*	**Project (Number/Name)** CP8 / *Accessions Information Environment (AIE)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
1.0 Enlisted Mission Capability Release	3	2019	4	2024
MVCR Release - 1.0 Enlisted	4	2024	4	2024
2.0 In-Service and Direct Commission Mission Capability Release	1	2025	4	2025
MVCR Release - 2.0 In-Service and Direct Commission	4	2025	4	2025
3.0 ROTC Campus and ROTC Summer Training Mission Capability Release	1	2026	4	2026
MVCR Release - 3.0 ROTC Campus and ROTC Summer Training	4	2026	4	2026
4.0 Accessions Support Mission Capability Release	1	2027	4	2027
MVCR Release - 4.0 Accessions Support	4	2027	4	2027
Development Contract (OTA non-FAR)	3	2019	1	2025
SETA Support Contract	3	2019	4	2029
RFP for Production Contract (FAR)	3	2024	1	2025
Contract Award for Production Contract (FAR)	1	2025	1	2025
Production Contract (FAR)	1	2025	4	2027

Note

Exploratory and automated regression testing occurs continuously, and Army Test and Evaluation Command (ATEC) operational assessment (OA) will occur 3-months prior to all major software releases.

In addition to major software releases shown on this chart, smaller incremental releases will occur as capability is completed throughout the development cycle.

SETA contract expires February 2024 and transitions to the Integrated Personnel and Pay System - Army (IPPS-A) portfolio program management support services contract.

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 0605235A / *Strategic Mid-Range Capability*

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	-	4.833	348.855	182.823	-	182.823	294.410	189.293	71.629	69.411	0.000	1,161.254
CQ4: *Mid-Range Capability*	-	4.833	348.855	182.823	-	182.823	294.410	189.293	71.629	69.411	0.000	1,161.254

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Long-Range Precision Fires Modernization Priority. The Mid-Range Capability (MRC) Weapon System leverages Joint Service technologies and integration of common hardware, software, and mutually supporting test events. MRC provides Ground Support Equipment (GSE) to include a Battery Operations Center (BOC) with support vehicles, launcher Payload Deployment System (PDS), and reload support to fire a mix of missiles capable of engaging strategic targets at mid-range distances. MRC leverages existing Standard Missile 6 (SM-6) and Tomahawk technology to include command and control systems and missile variants to provide a responsive, highly accurate capability designed for high value targets. MRC is optimized for the penetration / dis-integration phase of Multi-Domain Operations (MDO) by defeating enemy Anti-Access / Area Denial (A2/AD) systems, enabling Combatant Commanders freedom of maneuver. Five MRC batteries will be developed and fielded; the initial prototype MRC battery was developed and fielded by Rapid Capabilities and Critical Technologies Office (RCCTO) and four additional MRC batteries by Program Executive Office Missiles and Space (PEO MS).

The first MRC prototype weapon system battery delivered in FY 2023 as the First Unit of Issue (FUI) provided residual combat capability consisting of four (4) launchers, BOC, reload support, and basic load of missiles consisting of eight SM-6 Block 1A and eight Tomahawk Block V. Follow on annual delivery of the next three batteries (Battery 2 through 4) will be with RDT&E under a Middle Tier of Acquisition Rapid Prototyping pathway.

FY 2025 base funding in the amount of $182.823 million allows for developing, testing, evaluating, system engineering and integrating system improvements while ensuring safe, suitable and sustainable operational fielding of the remaining prototype batteries. Base funding also allows for purchasing and receiving hardware and materials to implement prototype fabrication, and to support component-level and system-level qualification. FY2025 base funding will be used to continue incrementally funding fabrication, integration of new design requirements, and technology insertions adding additional capabilities to the batteries.

The total cost of the MRC Middle Tier of Acquisition (MTA) effort is $540.1 million RDT&E from FY 2024 to FY 2026.The remainder of MRC MTA is fully funded across the Future Years Defense Program.

Funding in the amount of $0.721 million supports Pacific Deterrence Initiative (PDI).

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 0605235A / *Strategic Mid-Range Capability*

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	5.016	348.855	432.806	-	432.806
Current President's Budget	4.833	348.855	182.823	-	182.823
Total Adjustments	-0.183	0.000	-249.983	-	-249.983
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.001	-			
• SBIR/STTR Transfer	-0.184	-			
• Adjustments to Budget Years	-	-	-249.983	-	-249.983

Change Summary Explanation

FY 2025 funds were realigned to Missile Procurement Army (MIPA) to align with the Acquisition Strategy for Battery 5 Ground Support Equipment (GSE) and to procure additional tomahawk missiles including the Maritime Strike (MST) variant.

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 0605235A / *Strategic Mid-Range Capability*	Project (Number/Name) CQ4 / *Mid-Range Capability*	

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
CQ4: *Mid-Range Capability*	-	4.833	348.855	182.823	-	182.823	294.410	189.293	71.629	69.411	0.000	1,161.254
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Long-Range Precision Fires Modernization Priority. The Mid-Range Capability (MRC) Weapon System leverages Joint Service technologies and integration of common hardware, software, and mutually supporting test events. MRC provides Ground Support Equipment (GSE) to include a Battery Operations Center (BOC) with support vehicles, launcher Payload Deployment System (PDS), and reload support to fire a mix of missiles capable of engaging strategic targets at mid-range distances. MRC leverages existing SM-6 and Tomahawk technology to include command and control systems and missile variants to provide a responsive, highly accurate capability designed for high value targets. MRC is optimized for the penetration / dis-integration phase of Multi-Domain Operations (MDO) by defeating enemy Anti-Access / Area Denial (A2/AD) systems, enabling Combatant Commanders freedom of maneuver. Five MRC batteries will be developed and fielded; the initial prototype MRC battery was developed and fielded by Rapid Capabilities and Critical Technologies Office (RCCTO) and four additional MRC batteries by Program Executive Office Missiles and Space (PEO MS).

The first MRC prototype weapon system battery delivered in FY 2023 as the First Unit of Issue (FUI) provided residual combat capability consisting of four (4) launchers, BOC, reload support, and basic load of missiles consisting of eight SM-6 Block 1A and eight Tomahawk Block V. Follow on annual delivery of the next three batteries (Battery 2 through 4) will be with RDT&E under a Middle Tier of Acquisition Rapid Prototyping pathway.

FY 2025 base funding in the amount of $182.823 million allows for developing, testing, evaluating, system engineering and integrating system improvements while ensuring safe, suitable and sustainable operational fielding of the remaining prototype batteries. Base funding also allows for purchasing and receiving hardware and materials to implement prototype fabrication, and to support component-level and system-level qualification. FY2025 base funding will be used to continue incrementally funding fabrication, integration of new design requirements, and technology insertions adding additional capabilities to the batteries.

The total cost of the MRC Middle Tier of Acquisition (MTA) effort is $540.1 million RDT&E from FY 2024 to FY 2026.The remainder of MRC MTA is fully funded across the Future Years Defense Program.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: MRC Prototype Program Transition and Startup	4.833	-	-
Description: Program Executive Office Missiles and Space (PEO MS) develops agreements, decision points, acquisition strategies and plans which documents the transition of the Rapid Capabilities and Critical Technologies Office (RCCTO) prototype Mid-Range Capability (MRC) to a Programs of Record, thus aligning the Defense Management process and Secretary of the Army guidance for completing and fielding MRC equipment. The MRC Ground Support Equipment (GSE) leverages Joint Service technologies and integration of common hardware, software, and mutually supporting test events. This includes the Battery			

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 0605235A / *Strategic Mid-Range Capability*	**Project (Number/Name)** CQ4 / *Mid-Range Capability*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Operations Center (BOC), launcher Payload Deployment System (PDS), prime movers, trailers, generators, cabling, and support vehicles. The MRC BOC houses the federated Command and Control systems which enable the capability to fire a mix of missiles. The MRC Launcher PDS stows and fires a mix of missile types to include SM-6 and Tomahawk missiles capable of flying at various speeds and altitudes for engage desired targets at range. Additional missiles may integrate into the MRC GSE to meet capability needs to include Defense of Guam.			
Title: Mid-Range Capability Prototype Program	-	348.855	182.823
FY 2024 Plans: The FY 2024 Base funding in the amount of $348.855 million funds the fabrication, integration of design requirements, and test and evaluation for the Mid-Range Capabilities (MRC) Ground Support Equipment (GSE) and to enable completion and fielding of the prototype Battery 2. Base funding allows for integration of design requirements and evaluation of MRC GSE required characteristics to ensure safe and effective operational fielding of the prototype Batteries 2, 3, and 4. Funds the Original Equipment Manufacturer's (OEM) effort to purchase hardware and materials and receive Government Furnished Equipment (GFE) to fabricate and to support component-level and system-level qualification for MRC GSE. Base funding also allows for the System Engineering and Program Management of integration across military branches to include the OEM contractor and Other Government Agencies (OGA) in order to ensure a common MRC GSE. Funding provides for the Government and Contractor coordination required to perform systems engineering for system integration and check out, verify cybersecurity requirements, manage software development, verify transportation requirements, and plan and execute test and evaluation events to support fielding. This funding allows for developing, testing, evaluating, systems engineering and integrating of system improvements while ensuring safe, suitable and sustainable operational fielding of the MRC GSE solution through Technology Insertion Points adding additional capabilities to the prototype batteries. Additional integration efforts include improved communications, rapid reloading, improved mobility, weight reduction, M-Code implementation, software development, cyber security, transportability and locality-based enhancements. Provides Systems Engineering and Government Program Management required to deliver the prototype battery to a combat unit.			
FY 2025 Plans: The FY 2025 Base funding in the amount of $182.823 million funds the fabrication, integration of design requirements, and test and evaluation for the Mid-Range Capabilities (MRC) Ground Support Equipment (GSE) and to enable completion and fielding of the prototype Battery 3. Base funding allows for integration of design requirements and evaluation of MRC GSE required characteristics to ensure safe and effective operational fielding of the prototype Batteries 3 and 4. Funds the Original Equipment Manufacturer's (OEM) effort to purchase hardware and materials and receive Government Furnished Equipment (GFE) to fabricate and to support component-level and system-level qualification for MRC GSE.			

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 0605235A / *Strategic Mid-Range Capability*	**Project (Number/Name)** CQ4 / *Mid-Range Capability*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Base funding also allows for the System Engineering and Program Management of integration across military branches to include the OEM contractor and Other Government Agencies (OGA) in order to ensure a common MRC GSE. Funding provides for the Government and Contractor coordination required to perform systems engineering for system integration and check out, verify cybersecurity requirements, manage software development, verify transportation requirements, and plan and execute test and evaluation events to support fielding. This funding allows for developing, testing, evaluating, systems engineering and integrating of system improvements while ensuring safe, suitable and sustainable operational fielding of the MRC GSE solution through Technology Insertion Points adding additional capabilities to the prototype batteries. Additional integration efforts include improved communications, rapid reloading, improved mobility, weight reduction, M-Code implementation, software development, cyber security, transportability and locality-based enhancements. Provides Systems Engineering and Government Program Management required to deliver the prototype battery to a combat unit. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The final Mid Range Capability(MRC) Prototype battery is predominantly funded in Fiscal Year 2024. Therefore, prototype manufacturing costs is reduced in FY 2025, with a focus on technology insertions and testing of enhanced capability.			
Accomplishments/Planned Programs Subtotals	4.833	348.855	182.823

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
• C81200: *MID-RANGE CAPABILITY (MRC)*	-	169.519	233.037	-	233.037	56.623	265.688	376.428	380.192	0.000	1,481.487

Remarks

D. Acquisition Strategy

The Army Rapid Capabilities and Critical Technologies Office (RCCTO) transitioned MRC to the Program Executive Office Missiles and Space (PEO MS) in 1Q FY2024. RCCTO delivered the first MRC Battery in FY23, consisting of one Battery Operations Center (BOC), four launchers, one BOC Support Vehicle (BSV), and a reload capability. RCCTO also delivered the first eight Tomahawk and eight Standard Missile 6 (SM-6) missiles for operational use. PEO MS will complete the development, delivery, and fielding of the remaining four MRC batteries.

The Army intends to deliver three MRC batteries (MRC Batteries 2-4) no later than FY26 under the Middle Tier of Acquisition (MTA) Rapid Prototyping (RP) Acquisition Pathway Acquisition Decision Memorandum (ADM). MRC will be pursuing a follow-on ADM 2Q FY2025 for the acquisition and delivery of the fifth MRC Battery NLT FY27, which is planned for an alternative acquisition pathway, to be determined. Initial procurement funding for Battery 5 procurement is programmed in FY 2025 under APE 9214C81200.

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 0605235A / *Strategic Mid-Range Capability*	**Project (Number/Name)** CQ4 / *Mid-Range Capability*

For Batteries 2 through 4, MRC will use mature technologies and continue to evolve them to meet operational needs within the Army's required delivery timeline. The MTA RP strategy reduces program risk, allows for technology upgrades with each Battery and enables industry to quickly deliver capability within the five-year window. The Navy's VLS, Tomahawk, and SM-6 are all fielded systems with an extensive track record of operational success. MRCPO integrates the missiles, launchers, and C2 hardware into a land-based configuration with the goal of staying common with the Navy's fielded systems. This approach minimizes developmental efforts and thereby reduces overall technical risk. Known technology improvements, such as wireless communications, survivability upgrades, and incorporation of future missile variants, necessitate changes to each battery.

PEO MS is leveraging the existing Other Transaction Authority (OTA) agreement issued under RCCTO. The OTA includes priced Cost-Plus Fixed Fee options for Batteries 2-4. In FY24, RCCTO Contracts will novate the OTA to Army Contracting Command Redstone Arsenal who will provide contract management support for prototyping and procurement of MRC components for Batteries 2-4. The program leverages existing contract vehicles to procure items currently in production through a combination of Army contracts for standard Army trucks, trailers, and generators and Navy contracts for Tomahawk and SM-6 support.

ACC-RSA will award a FAR-based contract planned for 2Q FY2024 to enable continued technology insertion.

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 0605235A / *Strategic Mid-Range Capability*	Project (Number/Name) CQ4 / *Mid-Range Capability*	

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 / Systems Engineering	Various	Various : Huntsville, AL: National Capitol Region	-	4.833	Nov 2022	10.145	Oct 2023	8.988	Oct 2024	-		8.988	0.000	23.966	-
		Subtotal	-	4.833		10.145		8.988		-		8.988	0.000	23.966	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
Original Equipment Manufacturer (OEM)	SS/CPFF	Lockheed Martin : Lockhead Martin	-	-		219.876	Jan 2024	89.595	Jan 2025	-		89.595	0.000	309.471	-
Government Furnished Equipment (GFE)	Various	Various : Various	-	-		26.971	Dec 2023	16.865	Jun 2025	-		16.865	0.000	43.836	-
Other Government Agencies (OGA)	Various	Various : Various	-	-		19.321	Jan 2024	12.809	Jan 2025	-		12.809	0.000	32.130	-
		Subtotal	-	-		266.168		119.269		-		119.269	0.000	385.437	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
Cyber and Software	Various	Various : Various	-	-		32.534	Nov 2023	10.954	Nov 2024	-		10.954	0.000	43.488	-
Transportation and Support	Various	Various : Various	-	-		16.942	Oct 2023	17.103	Oct 2024	-		17.103	0.000	34.045	-
		Subtotal	-	-		49.476		28.057		-		28.057	0.000	77.533	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	Various : Various	-	-		23.066	Jan 2024	26.509	Jan 2025	-		26.509	0.000	49.575	-

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 0605235A / *Strategic Mid-Range Capability*	**Project (Number/Name)** CQ4 / *Mid-Range Capability*

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	-	-		23.066		26.509		-		26.509	0.000	49.575	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	-	4.833		348.855		182.823		-		182.823	0.000	536.511	N/A

Remarks

GFE includes trucks, trailers, cranes, generators, radios, communication equipment, navy electronics, missile handling equipment, storage containers.

OEM Cost Includes the Lockheed Martin Other Transaction Authority (OTA) and Technology Insertion 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 0605235A / *Strategic Mid-Range Capability*	**Project (Number/Name)** CQ4 / *Mid-Range Capability*

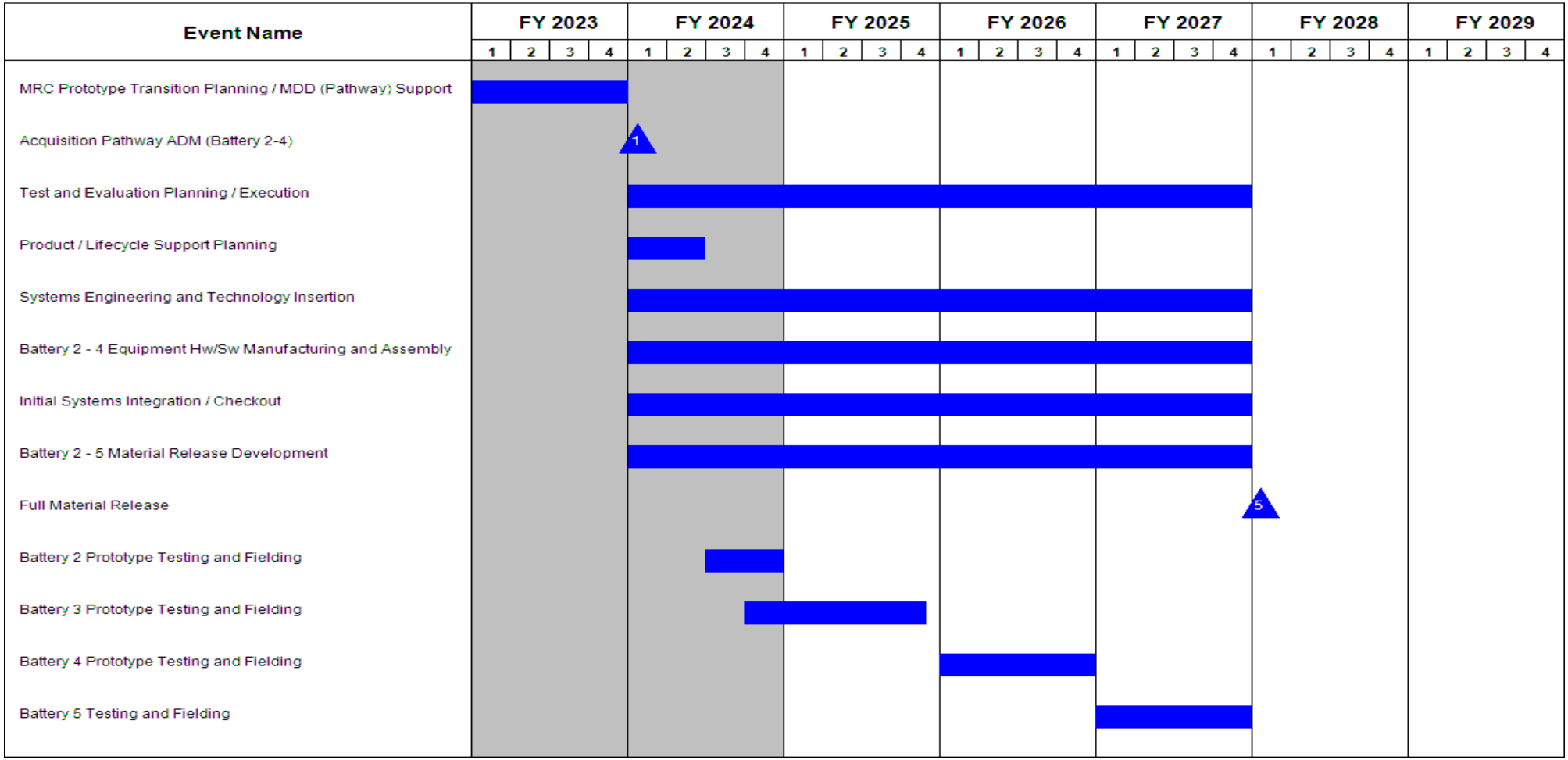


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605235A / *Strategic Mid-Range Capability*	**Project (Number/Name)** CQ4 / *Mid-Range Capability*

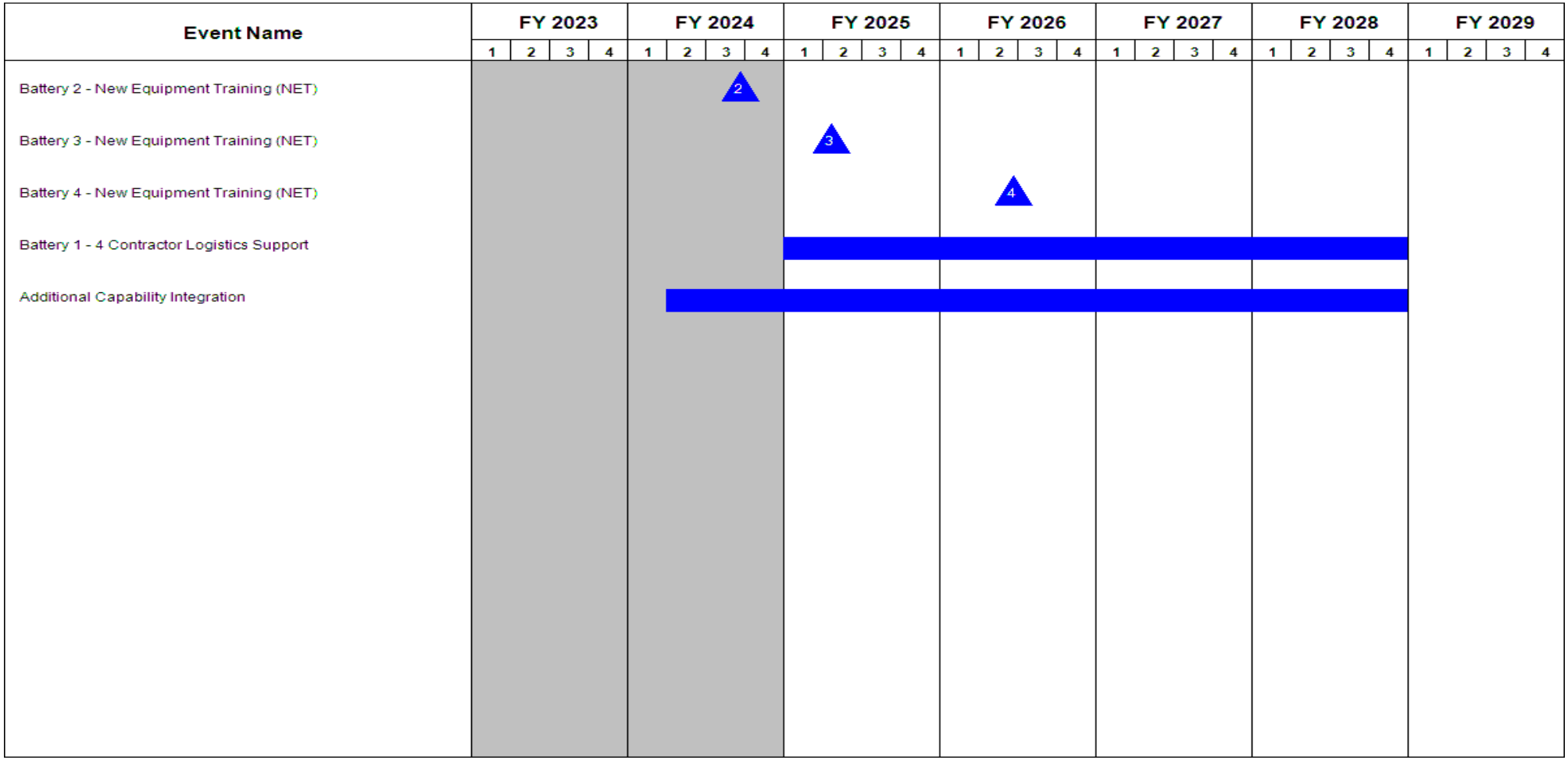


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605235A / *Strategic Mid-Range Capability*	**Project (Number/Name)** CQ4 / *Mid-Range Capability*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
MRC Prototype Transition Planning / MDD (Pathway) Support	1	2023	4	2023
Acquisition Pathway ADM (Battery 2-4)	1	2024	1	2024
Test and Evaluation Planning / Execution	1	2024	4	2027
Product / Lifecycle Support Planning	1	2024	2	2024
Systems Engineering and Technology Insertion	1	2024	4	2027
Battery 2 - 4 Equipment Hw/Sw Manufacturing and Assembly	1	2024	4	2027
Initial Systems Integration / Checkout	1	2024	4	2027
Battery 2 - 5 Material Release Development	1	2024	4	2027
Full Material Release	1	2028	1	2028
Battery 2 Prototype Testing and Fielding	3	2024	4	2024
Battery 3 Prototype Testing and Fielding	4	2024	4	2025
Battery 4 Prototype Testing and Fielding	1	2026	4	2026
Battery 5 Testing and Fielding	1	2027	4	2027
Battery 2 - New Equipment Training (NET)	3	2024	3	2024
Battery 3 - New Equipment Training (NET)	2	2025	2	2025
Battery 4 - New Equipment Training (NET)	2	2026	2	2026
Battery 1 - 4 Contractor Logistics Support	1	2025	4	2028
Additional Capability Integration	2	2024	4	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 0605236A / *Integrated Tactical Communications*

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	-	11.993	22.901	23.363	-	23.363	23.695	23.474	23.813	23.728	0.000	152.967
CQ1: *Tactical Communication Network Evaluation (TCNE)*	-	11.993	22.901	23.363	-	23.363	23.695	23.474	23.813	23.728	0.000	152.967

A. Mission Description and Budget Item Justification

The mission of TCNE is to design and validate the tactical network System of Systems (SoS) in accordance with Army's network priorities. TCNE will design the system of systems (SoS) network architecture through continuous test and evaluation to include user/soldier feedback and Verification and Validation efforts. These events help to identify network gaps in formation types, mitigate risk and mature capabilities that are ready for SoS integration within the Army's Tactical Network. TCNE will deliver network architectures that have been validated in an operational environment prior to fielding.

FY 2025 resources will be used to execute SoS architecture development through: engineering analysis, lab-based testing, cyber electromagnetic activities and Soldier Touch Points. Lab and field-based testing will address cyber vulnerabilities that reduce risk related to the integration of the system of system architecture.

The total cost of the Integrated Tactical Network - Rapid Prototyping Middle Tier of Acquisition effort is $90.4 million RDT&E from FY19 to FY24. The program will conduct an MTA Closeout in 3QFY24 with the Decision Authority (DA), PEO C3T. Effective FY25, the program will operate as a Systems of Systems integration and experimentation effort under the authority granted via the Acquisition Decision Memorandum (ADM) signed June 21,2023

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	12.447	22.901	7.624	-	7.624
Current President's Budget	11.993	22.901	23.363	-	23.363
Total Adjustments	-0.454	0.000	15.739	-	15.739
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.454	-			
• Adjustments to Budget Years	-	-	15.739	-	15.739

Change Summary Explanation

Increase in funding line to address the design and validation of the Army tactical network.

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 0605236A / *Integrated Tactical Communications*	Project (Number/Name) CQ1 / *Tactical Communication Network Evaluation (TCNE)*	

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
CQ1: *Tactical Communication Network Evaluation (TCNE)*	-	11.993	22.901	23.363	-	23.363	23.695	23.474	23.813	23.728	0.000	152.967
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The mission of TCNE is to design and validate the tactical network System of Systems (SoS) in accordance with Army's network priorities. TCNE will design the system of systems (SoS) network architecture through continuous test and evaluation to include user/soldier feedback and Verification and Validation efforts. These events help to identify network gaps in formation types, mitigate risk and mature capabilities that are ready for SoS integration within the Army's Tactical Network. TCNE will deliver network architectures that have been validated in an operational environment prior to fielding.

FY 2025 resources will be used to execute SoS architecture development through: engineering analysis, lab-based testing, cyber electromagnetic activities and Soldier Touch Points. Lab and field-based testing will address cyber vulnerabilities that reduce risk related to the integration of the system of system architecture.

The total cost of the Integrated Tactical Network - Rapid Prototyping Middle Tier of Acquisition effort is $90.4 million RDT&E from FY19 to FY24. The program will conduct an MTA Closeout in 3QFY24 with the Decision Authority (DA), PEO C3T. Effective FY25, the program will operate as a Systems of Systems integration and experimentation effort under the authority granted via the Acquisition Decision Memorandum (ADM) signed June 21,2023

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Program Management Support	1.021	1.308	1.286
Description: Funding for this purchases SETA support for the TCNE program. Funding goes toward Program management, 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: FY24 funds will provide overall management and oversight to implement ITN acquisition strategy and evaluation through additional testing events.			
FY 2025 Plans: FY25 funds will provide overall management and oversight to implement TCNE acquisition strategy and evaluation through additional testing events.			
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 0605236A / *Integrated Tactical Communications*	**Project (Number/Name)** CQ1 / *Tactical Communication Network Evaluation (TCNE)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Cost Delta is Insignificant.			
Title: Engineering Technical Support ***Description:*** Engineering & Technical Analysis Support ***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 ITN objectives. Funds will facilitate technical test support for candidate products utilized within ITN's iterative evaluation and capability implementation strategy. ***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 TCNE objectives. Funds will facilitate technical test support utilized within TCNE's iterative evaluation and capability implementation strategy. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Cost Delta is insignificant.	1.704	1.757	1.792
Title: Test and Evaluation ***Description:*** Evaluation will include a series of events to identify network capabilities, gaps and potential enhancements to improve mission effectiveness, lethality and interoperability with the Army Tactical network. The results of the events will facilitate the planning preparation, and coordination of the proposed system of system network architecture. ***FY 2024 Plans:*** ITN testing and evaluation will utilize a series of System of Systems assessments that gather multiple data points which include Lab Based Risk Reduction (LBRR),Technical Test(TT), Electronic Warfare Operational Test, three Cyber Tests and a culminating Cap Set Operational Demonstration. These are collaborative events that provide feedback regarding cybersecurity resiliency, risk reduction and network performance prior to an operational demonstration ***FY 2025 Plans:*** Testing and evaluation will utilize a series of System of Systems assessments that gather multiple data points which include verification and validation, continuous lab environments and soldier touch points. These are collaborative events that provide feedback regarding cybersecurity resiliency, risk reduction and network performance. ***FY 2024 to FY 2025 Increase/Decrease Statement:***	9.268	19.836	20.285

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 0605236A / *Integrated Tactical Communications*	**Project (Number/Name)** CQ1 / *Tactical Communication Network Evaluation (TCNE)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Cost Delta is insignificant.			
Accomplishments/Planned Programs Subtotals	11.993	22.901	23.363

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The total cost of the Integrated Tactical Network - Rapid Prototyping Middle Tier of Acquisition effort is $90.4 million RDT&E from FY19 to FY24. The program will conduct an MTA Closeout in 3QFY24 with the Decision Authority (DA), PEO C3T. Effective FY25, the program will operate as a Systems of Systems integration and experimentation effort under the authority granted via the Acquisition Decision Memorandum (ADM) signed June 21,2023.

TCNE will focus on System of Systems (SoS) Engineering and Integration for the tactical network with increased emphasis on immediate Warfighter needs as well as leveraging emerging technologies. TCNE will purchase the commercial off the shelf items needed by utilizing various contractual vehicles, to include Common Hardware System 6th Generation (CHS-6), other indefinite delivery/indefinite quantity, and Defense Logistics Agency(DLA).

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 0605236A / *Integrated Tactical Communications*	**Project (Number/Name)** CQ1 / *Tactical Communication Network Evaluation (TCNE)*	

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	SS/CPFF	TBD : APG	-	1.021	Feb 2023	1.308	Feb 2024	1.286	Feb 2025	-		1.286	0.000	3.615	-
		Subtotal	-	1.021		1.308		1.286		-		1.286	0.000	3.615	N/A

Remarks

RS3 SETA Contract picks up option year in February of each year.

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 and Technical Support	SS/IDIQ	MITRE/Booz Allen Hamilton : Various	-	1.704	Dec 2022	1.757	Dec 2023	1.792	Dec 2024	-		1.792	0.000	5.253	-
		Subtotal	-	1.704		1.757		1.792		-		1.792	0.000	5.253	N/A

Remarks

MITRE Engineering and Technical Support

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	C/Various	Testing : Various	-	9.268	Dec 2022	19.836	Jan 2023	20.285	Jan 2025	-		20.285	0.000	49.389	-
		Subtotal	-	9.268		19.836		20.285		-		20.285	0.000	49.389	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	-	11.993		22.901		23.363		-		23.363	0.000	58.257	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 0605236A / *Integrated Tactical Communications*	**Project (Number/Name)** CQ1 / *Tactical Communication Network Evaluation (TCNE)*

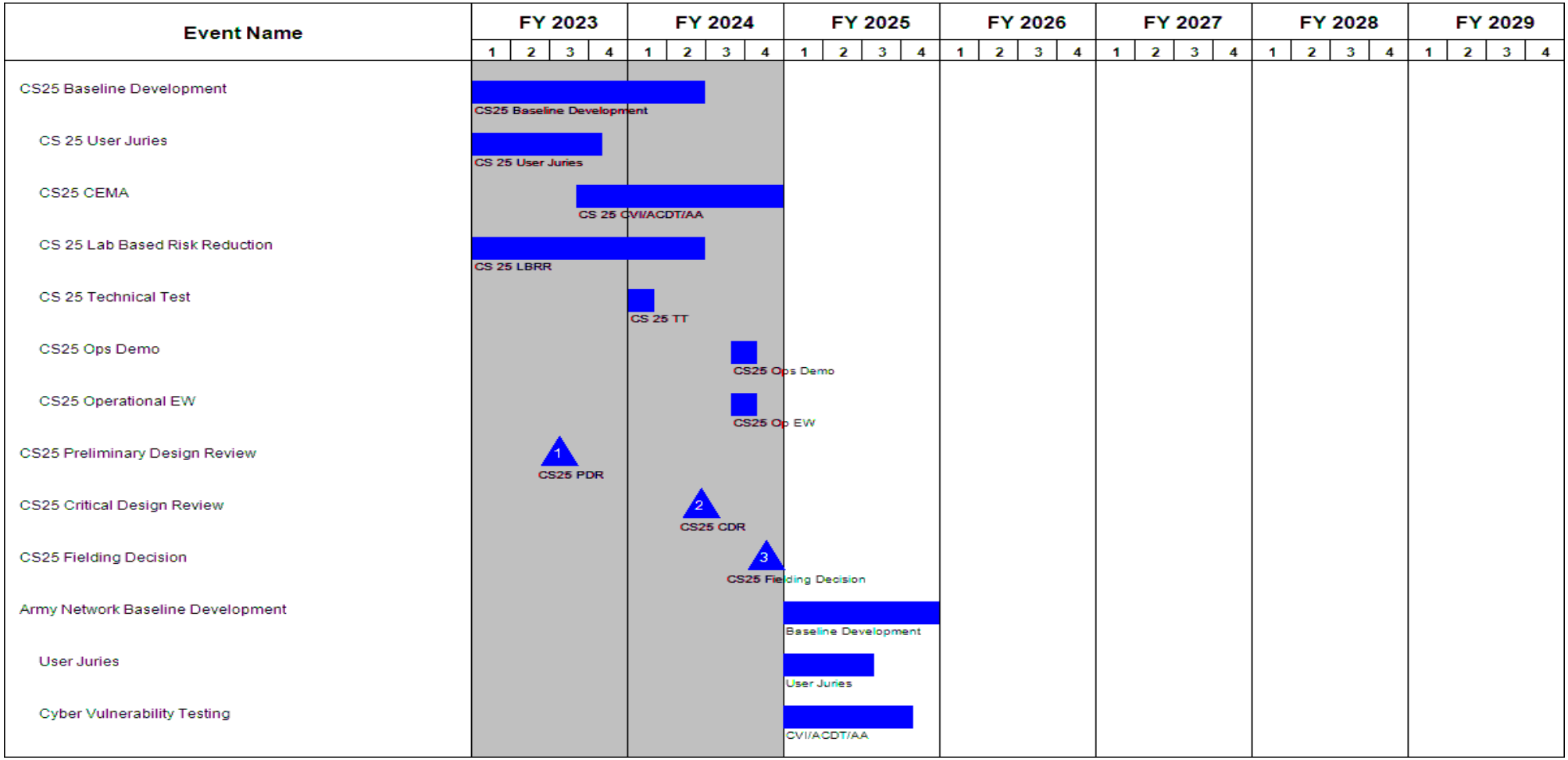


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605236A / *Integrated Tactical Communications*	**Project (Number/Name)** CQ1 / *Tactical Communication Network Evaluation (TCNE)*

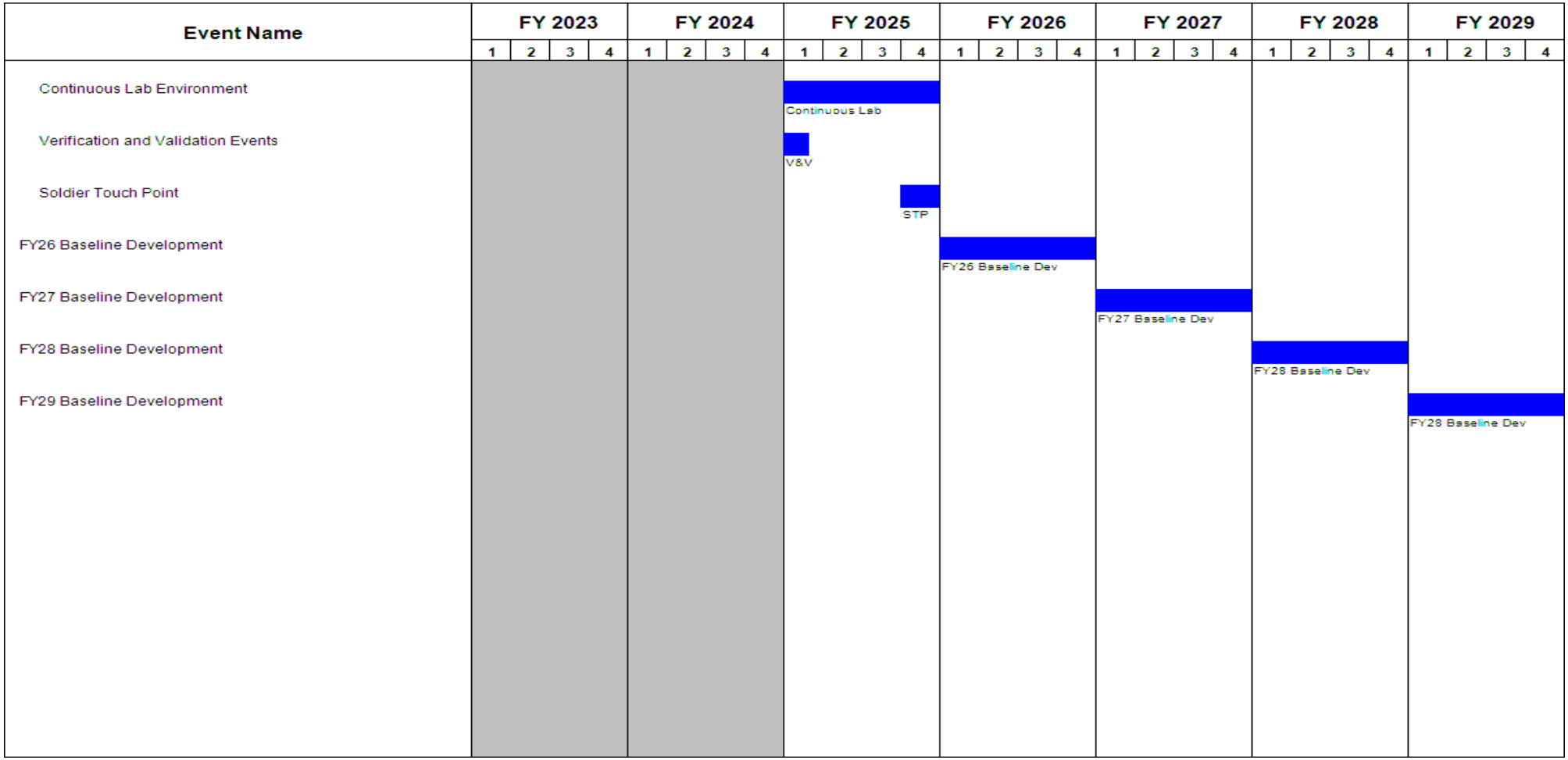


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605236A / *Integrated Tactical Communications*	**Project (Number/Name)** CQ1 / *Tactical Communication Network Evaluation (TCNE)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
CS25 Baseline Development	1	2023	2	2024
CS 25 User Juries	1	2023	4	2023
CS25 CEMA	3	2023	4	2024
CS 25 Lab Based Risk Reduction	1	2023	2	2024
CS 25 Technical Test	1	2024	1	2024
CS25 Ops Demo	3	2024	4	2024
CS25 Operational EW	3	2024	4	2024
CS25 Preliminary Design Review	3	2023	3	2023
CS25 Critical Design Review	2	2024	2	2024
CS25 Fielding Decision	4	2024	4	2024
Army Network Baseline Development	1	2025	4	2025
User Juries	1	2025	3	2025
Cyber Vulnerability Testing	1	2025	4	2025
Continuous Lab Environment	1	2025	4	2025
Verification and Validation Events	1	2025	1	2025
Soldier Touch Point	4	2025	4	2025
FY26 Baseline Development	1	2026	4	2026
FY27 Baseline Development	1	2027	4	2027
FY28 Baseline Development	1	2028	4	2028
FY29 Baseline Development	1	2029	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 0605236A / *Integrated Tactical Communications*	**Project (Number/Name)** CQ1 / *Tactical Communication Network Evaluation (TCNE)*

Note

Network baseline activities will utilize a series of System of Systems assessments that gather multiple data points which include verification and validation, continuous lab environments and soldier touch points. These are collaborative events that provide feedback regarding cybersecurity resiliency, risk reduction and network performance.

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 0605241A *I Future Long Range Assault Aircraft 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	-	-	-	1,253.637	-	1,253.637	843.708	826.934	697.946	725.788	Continuing	Continuing
DG5: *Future Long Range Assault Aircraft*	-	-	-	1,253.637	-	1,253.637	843.708	826.934	697.946	725.788	Continuing	Continuing

Note

Future Long Range Assault Aircraft Development is a new start in FY 2025.

A. Mission Description and Budget Item Justification

This funding line directly aligns to the Future Vertical Lift (FVL) Army modernization priority. Future Vertical Lift (FVL) is an initiative to develop a family of vertical lift aircraft for the United States Armed Forces. The Department of Defense (DOD) established FVL to focus vertical lift capabilities and technology development as well as retain long-term industrial base capabilities. The Deputy Secretary of Defense issued the FVL Strategic Plan in 2012 to outline a joint approach for the next generation vertical lift aircraft for all military services. The Strategic Plan provided a foundation for replacing the current fleet with advanced capability by shaping the development of vertical lift aircraft for the next 25 to 40 years. In Fiscal Year (FY) 2017, the Army identified FVL as one of the Army's six modernization priorities, and established the FVL Cross Functional Team (CFT). The FVL objectives are increased vertical lift maneuverability, range, speed, payload, survivability, and reliability while reducing the logistics footprint. This capability will provide critical vertical lift aviation capability in multi-domain operations to the joint warfighter and maneuver force.

The Future Long Range Assault Aircraft (FLRAA) program pursues FVL Capability Set 3 (CS3) and provides Combatant Commanders with deterrence, power projection, and tactical capabilities at operational and strategic distances. The Army competitively awarded the weapon system development contract in December 2022, using a hybrid acquisition approach. The contract award initiates the Rapid Prototyping effort to execute a preliminary design and development of FLRAA Virtual Prototypes, using Middle Tier of Acquisition (MTA) authorities.

FLRAA integrates advanced technologies, using a modular open systems approach, and design configurations with appropriate trades to ensure affordability.

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 0605241A *I Future Long Range Assault Aircraft Development*

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	1,253.637	-	1,253.637
Total Adjustments	0.000	0.000	1,253.637	-	1,253.637
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	1,253.637	-	1,253.637

Change Summary Explanation

In Fiscal Year 2025 (FY25), funding previously planned in Program Element 0603801A Project B47 transitions to Program Element 0605241A / Future Long Range Assault Aircraft Development, Project DG5 / Future Long Range Assault Aircraft, to support Budget Activity guidance for programs achieving Milestone B.

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 0605241A / *Future Long Range Assault Aircraft Development*	Project (Number/Name) DG5 / *Future Long Range Assault Aircraft*	

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
DG5: *Future Long Range Assault Aircraft*	-	-	-	1,253.637	-	1,253.637	843.708	826.934	697.946	725.788	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Future Long Range Assault Aircraft is a new start within the Future Long Range Assault Aircraft Development program in FY 2025.

Transitions funds previously planned in Program Element 0603801A Project B47 to Program Element 0605241A Project DG5 to support execution for programs achieving Milestone B in accordance with the Financial Management Regulation.

A. Mission Description and Budget Item Justification

The Future Long Range Assault Aircraft Development Project's funding provides for the development of a Future Long Range Assault Aircraft (FLRAA) Capability Set 3 weapon system within the FVL family of systems. FLRAA will conduct air assault, urban assault/security, maritime interdiction, medical evacuation, humanitarian assistance/disaster relief, tactical resupply, direct action, noncombatant evacuation operation, and combat search and rescue operations. FLRAA will support the Army, including Special Operations Command (USSOCOM) and the Joint Force, in a contested, near peer threat environment. The FLRAA weapon system will retain the Army's ability to project combat power with transformational increases in range, speed, mobility, and payload over current Army and USSOCOM aircraft.

FLRAA achieved a Materiel Development Decision approval in October 2016 and the Office of Secretary of Defense granted a sufficiency determination of the Analysis of Alternatives (AoA) in July 2019.

The Fiscal Year (FY) 2025 budget request funds post Milestone B activities and continued development of a digital backbone architected to meet Modular Open System Approach (MOSA) objectives, and developmental prototype assembly and integration for qualification and test.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Future Long Range Assault Aircraft Weapon System Development	-	-	1,253.637
Description: Execution of the Future Long Range Assault Aircraft (FLRAA) Engineering and Manufacturing Development phase of the Acquisition Cycle. This includes all developmental engineering, prototype manufacturing, test and qualification, supportability planning, and systems engineering and program management activities.			
FY 2025 Plans: Complete design activities culminating in the FLRAA Weapon System Critical Design Review, continue aircraft prototype manufacturing for EMD aircraft prototypes one through six, continue maturing Government Furnished Equipment (GFE) for prototype integration and developmental testing (such as communications, navigation, sensors, and aircraft survivability			

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 0605241A / *Future Long Range Assault Aircraft Development*	**Project (Number/Name)** DG5 / *Future Long Range Assault Aircraft*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
equipment). Continue maturation of critical enabling capabilities (such as digital engineering infrastructure and digital engineering tools), and begin to manufacture FLRAA EMD aircraft prototypes seven and eight, which will support Limited User Test (LUT). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding transitioned from BA4 Program Element 0604801A Project B47. A funding increase from FY 2024 levels is required in FY 2025 due to the increased cost of materials and manufacturing labor associated with building the FLRAA EMD aircraft prototypes.			
Accomplishments/Planned Programs Subtotals	-	-	1,253.637

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
• B47: *Future Vertical Lift*	202.522	1,027.608	0.000	-	0.000	-	-	-	-	0.000	1,230.130
• CS7: *FLRAA MTA*	462.255	16.536	6.591	-	6.591	-	-	-	-	0.000	485.382
• A12002: *Future Long Range Assault Aircraft (FLRAA)*	-	-	0.000	-	0.000	-	265.937	438.536	787.364	0.000	1,491.837

Remarks

Program Element 0603465A Future Vertical Lift Advanced Technology includes Joint Multi-Role Technology Demonstration (JMR-TD); supported flying demonstrator activities providing knowledge transfer from flight test, data analysis, Soldier touch points, and risk reduction activities to the FLRAA program.

Project CS7 includes all FLRAA MTA efforts from FY 2023 through FY 2025, which was initiated as a planned accomplishment under Project B47 in FY 2022.

Project B47 includes all FLRAA pre-MDAP risk reduction efforts initiated prior to Milestone B, including the Competitive Demonstration and Risk Reduction Other Transaction Authority agreements and subsystem design risk reduction efforts awarded on the FLRAA Weapon System Development Contract.

Army Program Element A12002 includes all FLRAA procurement funding in FY 2027 and beyond.

D. Acquisition Strategy

The Army is executing a hybrid acquisition approach to design, develop, and deliver the FLRAA weapons system. In order to support the Army's modernization strategy and concept for multi-domain operations, the FLRAA program will deliver the first aircraft in FY 2030. This hybrid approach builds on the JMR-TD efforts (started in 2013); the Army's AoA (completed in July 2019); and multiple risk mitigation efforts.

The Army's risk mitigation activities ahead of the Weapon System Development contract award have included: (1) additional conceptual design and flight envelope expansion tasks on the existing JMR-TD Technology Investment Agreement (TIA); (2) MOSA, FVL Architecture Collaboration Working Group (with participation from industry and academia) to establish a common architecture requirements framework for FLRAA system development; and (3) a CD&RR effort, awarded to two Project

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 0605241A / *Future Long Range Assault Aircraft Development*	**Project (Number/Name)** DG5 / *Future Long Range Assault Aircraft*

Agreement Holders (PAH), using an Aviation Missile and Technology Consortium (AMTC) Other Transaction Authority (OTA) agreements to provide substantiating technical documentation on weapon system designs, requirements decompositions, trade-studies, and requirements feasibility for the FLRAA Weapon System Development.

These risk reduction activities have maintained industry engagement and momentum from the JMR-TD program, informed capabilities and system requirements, and provided initial trade assessments for the final operational requirements. They also informed the final acquisition strategy, matured the Government's architecture requirements, and transitioned appropriate Science & Technology investments to the PoR. CD&RR Phase II incorporated efforts leading to preliminary design using a digital engineering environment. The Army competitively awarded the Weapon System Development contract in December 2022 to one vendor with a hybrid acquisition approach. This approach includes the opportunity to employ new DoDI 5000.80 (Operation of the Middle Tier of Acquisition (MTA)) authorities along with a tailored DoDI 5000.85 (Major Capability Acquisition) acquisition strategy.

Finally, the Army is also addressing life cycle affordability, sustainability, and maintainability early in the program. The FLRAA program is employing multiple strategies including: cost reduction opportunities, use of a digital thread from design through sustainment, and stochastic sustainment modeling. Additionally, FLRAA is one of the Army's pilot programs for digital engineering and life cycle intellectual property and data strategy development.

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 0605241A / *Future Long Range Assault Aircraft Development*	Project (Number/Name) DG5 / *Future Long Range Assault Aircraft*	

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 and Operations Contract Support	C/ FFPLOE	SMX : Redstone Arsenal, AL	-	-		-		6.075	Mar 2025	-		6.075	Continuing	Continuing	-
Government Operations	Various	PEO Aviation : Redstone Arsenal, AL	-	-		-		2.570	Dec 2024	-		2.570	Continuing	Continuing	-
		Subtotal	-	-		-		8.645		-		8.645	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
Prototype Material - Government Furnished Equipment	Various	Various : Various/ Redstone Arsenal	-	-		-		18.053	Dec 2024	-		18.053	Continuing	Continuing	-
Prototype Material and Manufacturing Development (EMD)	C/Various	Bell Textron, Inc. : Fort Worth, TX	-	-		-		1,128.502	Nov 2024	-		1,128.502	Continuing	Continuing	-
		Subtotal	-	-		-		1,146.555		-		1,146.555	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
Acquisition and Supportability Analysis	Various	AMCOM ALC, CCDC AvMC : Redstone Arsenal, AL	-	-		-		8.269	Nov 2024	-		8.269	Continuing	Continuing	-
Enterprise Logistics and Support Analysis	Various	Various : Redstone Arsenal, AL	-	-		-		2.939	Mar 2025	-		2.939	Continuing	Continuing	-
Airworthiness and Engineering Support	Various	AvMC CCDC : Redstone Arsenal, AL	-	-		-		29.419	Jan 2025	-		29.419	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 0605241A / *Future Long Range Assault Aircraft Development*	Project (Number/Name) DG5 / *Future Long Range Assault Aircraft*	

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
Contracted Engineering and Technical Services	C/ FFPLOE	Various : Huntsville, AL	-	-		-		16.709	Jan 2025	-		16.709	Continuing	Continuing	-
Enterprise Common Technical Support to Programs	Various	Various : Redstone Arsenal, AL	-	-		-		19.097	Mar 2025	-		19.097	Continuing	Continuing	-
Enterprise Architecture Convergence and Holistic Survivability	Various	Various : Huntsville, AL	-	-		-		9.905	Mar 2025	-		9.905	Continuing	Continuing	-
Adaptive Work Environment Enabling Infrastructure and Support	Various	Various : Huntsville, AL	-	-		-		4.923	Mar 2025	-		4.923	Continuing	Continuing	-
Contract Administration and Support	MIPR	Army Contracting Command - Redstone Arsenal : Redstone Arsenal, AL	-	-		-		2.184	Nov 2024	-		2.184	Continuing	Continuing	-
		Subtotal	-	-		-		93.445		-		93.445	Continuing	Continuing	N/A

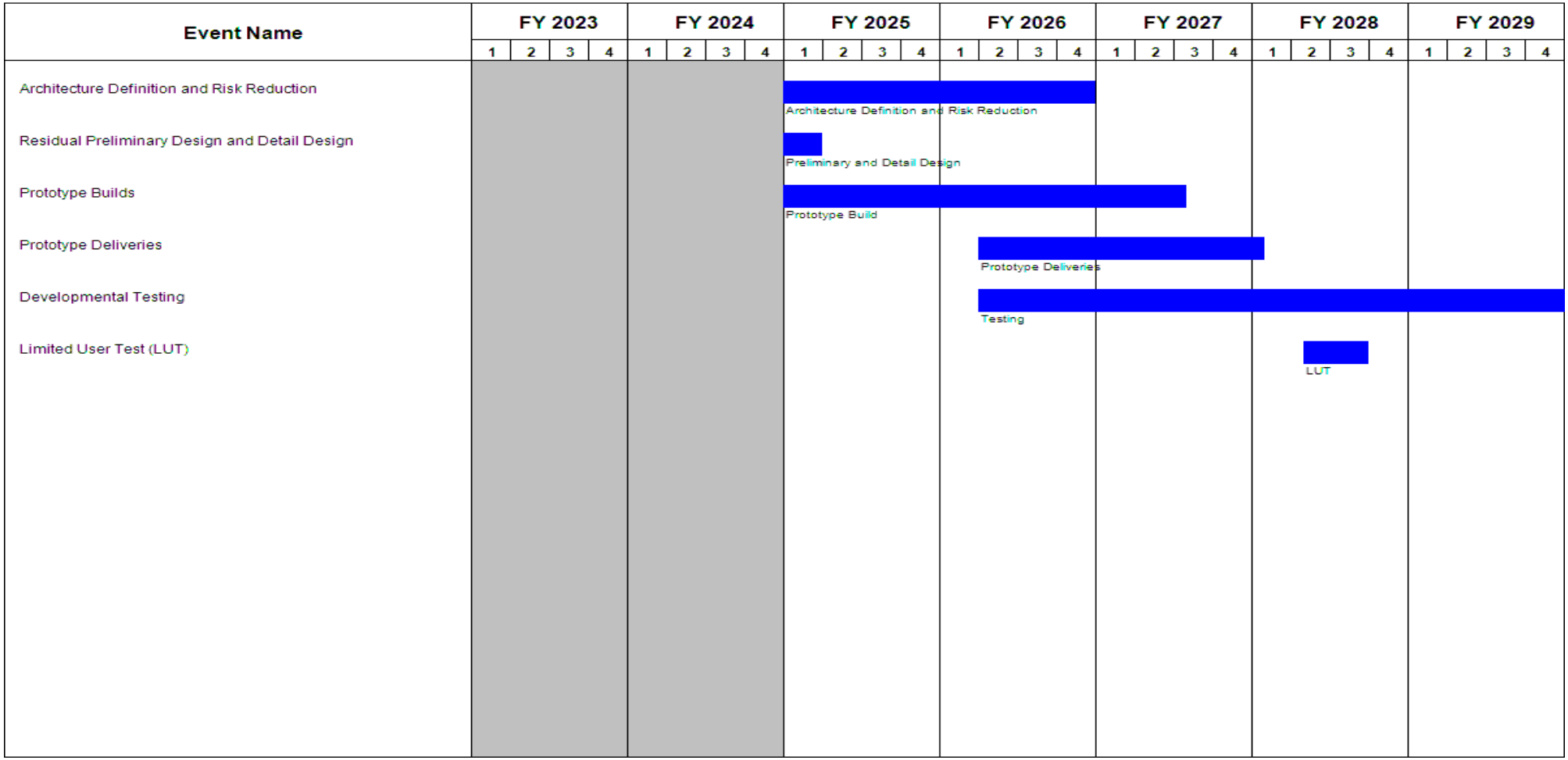
Test and Evaluation ($ in Millions)

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 Test and Evaluation Planning and Support	Various	Redstone Test Center : Redstone Arsenal, AL	-	-		-		4.992	Dec 2024	-		4.992	Continuing	Continuing	-
		Subtotal	-	-		-		4.992		-		4.992	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	-	-		-		1,253.637		-		1,253.637	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 0605241A / *Future Long Range Assault Aircraft Development*	**Project (Number/Name)** DG5 / *Future Long Range Assault Aircraft*



Note

This Program Element funds the Engineering and Manufacturing Development phase of the Future Long Range Assault Aircraft program, with previous activities executed under Program Element 0603201A/Aviation - Adv Dev, Project B47/Future Vertical Lift.

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 0605241A / *Future Long Range Assault Aircraft Development*	**Project (Number/Name)** DG5 / *Future Long Range Assault Aircraft*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Architecture Definition and Risk Reduction	1	2025	4	2026
Residual Preliminary Design and Detail Design	1	2025	1	2025
Prototype Builds	1	2025	3	2027
Prototype Deliveries	2	2026	1	2028
Developmental Testing	2	2026	1	2030
Limited User Test (LUT)	2	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 0605242A / *Theater SIGINT System (TSIGS)*

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	0.000	6.660	0.000	6.660	0.000	0.000	0.000	0.000	0.000	6.660
DJ4: *Theater SIGINT System (TSIGS)*	-	-	-	6.660	-	6.660	-	-	-	-	0.000	6.660

Note

Theater SIGINT System (TSIGS) is a new start in FY 2025.

A. Mission Description and Budget Item Justification

This Program Element encompasses engineering and manufacturing development for strategic, theater of operations focused, Signals Intelligence (SIGINT) terrestrial (ground) employment applications. The systems under this program provide the Army with the capability to detect, identify, locate, collect, process, and report advanced adversarial signals of interest (SoI) for Indications and Warnings (I&W), support to Electronic Order of Battle development (EOB) for U.S. and allied maneuver units, and SIGINT support to Electromagnetic Warfare and Cyber Operations.

Project DJ4 supports the development of the Theater SIGINT System (TSIGS). TSIGS will provide SIGINT integrated solutions to support Multi Domain Battle capability gaps and provide Force Protection, Situational Development, and Information Superiority to Army Service Component Commands (ASCCs) and Combatant Commands (COCOMs) at the strategic level. TSIGS will equip Military Intelligence Brigades with non-persistent mobile capabilities, persistent static capabilities, and portable survey capabilities to their subordinate formations. Enables integration, interoperability and force modernization with emerging capabilities in support of theater aligned Military Intelligence units and Intelligence Community (IC) collection priorities. FY 2025 funds the Theater SIGINT System (TSIGS) effort (Project DJ4).

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	6.660	-	6.660
Total Adjustments	0.000	0.000	6.660	-	6.660
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	6.660	-	6.660

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 0605242A *I Theater SIGINT System (TSIGS)*

Change Summary Explanation

Fiscal Year (FY) 2025 New Start Program. The funding increase for 0605242A is $6.660 million to support the development, integration, and technical insertions of signals of interest (SOI) of the TSIGS program.

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 0605242A / *Theater SIGINT System (T SIGS)*	Project (Number/Name) DJ4 / *Theater SIGINT System (TSIGS)*	

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
DJ4: *Theater SIGINT System (TSIGS)*	-	-	-	6.660	-	6.660	-	-	-	-	0.000	6.660
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Theater SIGINT System (TSIGS) is a new start within the Theater SIGINT System (TSIGS) program in FY 2025.

A. Mission Description and Budget Item Justification

This funding line will provide SIGINT integrated solutions to support Multi Domain Battle capability gaps and provide Force Protection, Situational Development, and Information Superiority to ASCCs and COCOMs at the strategic level. TSIGS' information Superiority provides Commanders and staffs timely, accurate, relevant, and predictive intelligence to understand threat characteristics, goals and objectives, supporting the military decision-making process, courses of action (COA) development, and targeting support. TSIGS employs technologically advanced systems with a modular open-system approach (C5ISR/EW Modular Open Suite of Standards (CMOSS)) for multiple configurations that can be efficiently sustained and effectively upgraded to provide capabilities against changing near peer and emerging threats to address joint all domain capability gaps. Enables integration, interoperability and force modernization with emerging capabilities in support of theater aligned Military Intelligence units and IC collection priorities.

Justification:
FY25 base funds in the amount of $6.660M will fund TSIGS Integration, Demonstration/Experimentation/Prototyping, Technical/Program Management, Non-Recurring Engineering (NRE), and Integration/Materiel Developer Testing.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: SW Development/Operational Relevancy	-	-	4.985
Description: Funds will be allocated to facilitate the development, testing, and integration of new signals of interest (SOI) requirements, ensuring the operational relevance needed to effectively counter peer and near-peer threat signals. Moreover, the funding will cover engineering, prototyping, integration, and technical insertions of new SOIs into the program, as well as funding test activities for TSIGS.			
FY 2025 Plans: In FY2025, planning includes the systematic development and testing of Next Generation Signals and state-of-the-art SIGINT exploitation techniques, informing requirements (CDD)/Tactic, Techniques and Procedures (TTPs).			
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 0605242A / *Theater SIGINT System (T SIGS)*	**Project (Number/Name)** DJ4 / *Theater SIGINT System (TSIGS)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Fiscal Year (FY) 2025 New Start Program. This is the initial funding on this line. $4.985 million for the development, testing and integration of Next Generation Signals and state-of-the-art SIGINT exploitation techniques to the program.			
Title: Technical Management Support ***Description:*** Funds will provide Technical/Program Management support for engineering, prototyping, integration and test activities for the TSIGS program. ***FY 2025 Plans:*** FY 2025 technical engineering and program management support for TSIGS SOI development, and delivery of production-representative systems to reach Initial Operational Capability (IOC). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Fiscal Year (FY) 2025 New Start Program. This is the initial funding on this line. $1.675 million for engineering, program and technical management support to development, integration and technical insertions of SOIs to the program.	-	-	1.675
Accomplishments/Planned Programs Subtotals	-	-	6.660

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

N/A

D. Acquisition Strategy

Upon initiating the TSIGS program, a competitive acquisition strategy will be approved. The approach will involve the adoption of a Major Capability Acquisition (MCA) framework, integrating elements from the Software Acquisition model. The goal is to swiftly deliver an integrated ground intelligence system of systems that aligns with strategically positioned theater-based forces. The TSIGS initiative will capitalize on MCA authorities to expedite development and continuous integration and continuous delivery (CI/CD) of software products, ensuring adaptability to evolving and emerging requirements over time.

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 0605242A / *Theater SIGINT System (T SIGS)*	Project (Number/Name) DJ4 / *Theater SIGINT System (TSIGS)*	

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
Technical Management Support	Various	PM EW&C : APG, MD	-	-		-		1.389	Nov 2024	-		1.389	0.000	1.389	-
		Subtotal	-	-		-		1.389		-		1.389	0.000	1.389	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
SW Development/ Operational Relevancy	TBD	TBD : TBD	-	-		-		4.985	Nov 2024	-		4.985	0.000	4.985	-
		Subtotal	-	-		-		4.985		-		4.985	0.000	4.985	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 and Technical Service Govt	C/CPFF	MAG AEROSPACE : APG, MD	-	-		-		0.286	Jun 2025	-		0.286	0.000	0.286	-
		Subtotal	-	-		-		0.286		-		0.286	0.000	0.286	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	-	-		-		6.660		-		6.660	0.000	6.660	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 0605242A / *Theater SIGINT System (T SIGS)*	**Project (Number/Name)** DJ4 / *Theater SIGINT System (TSIGS)*

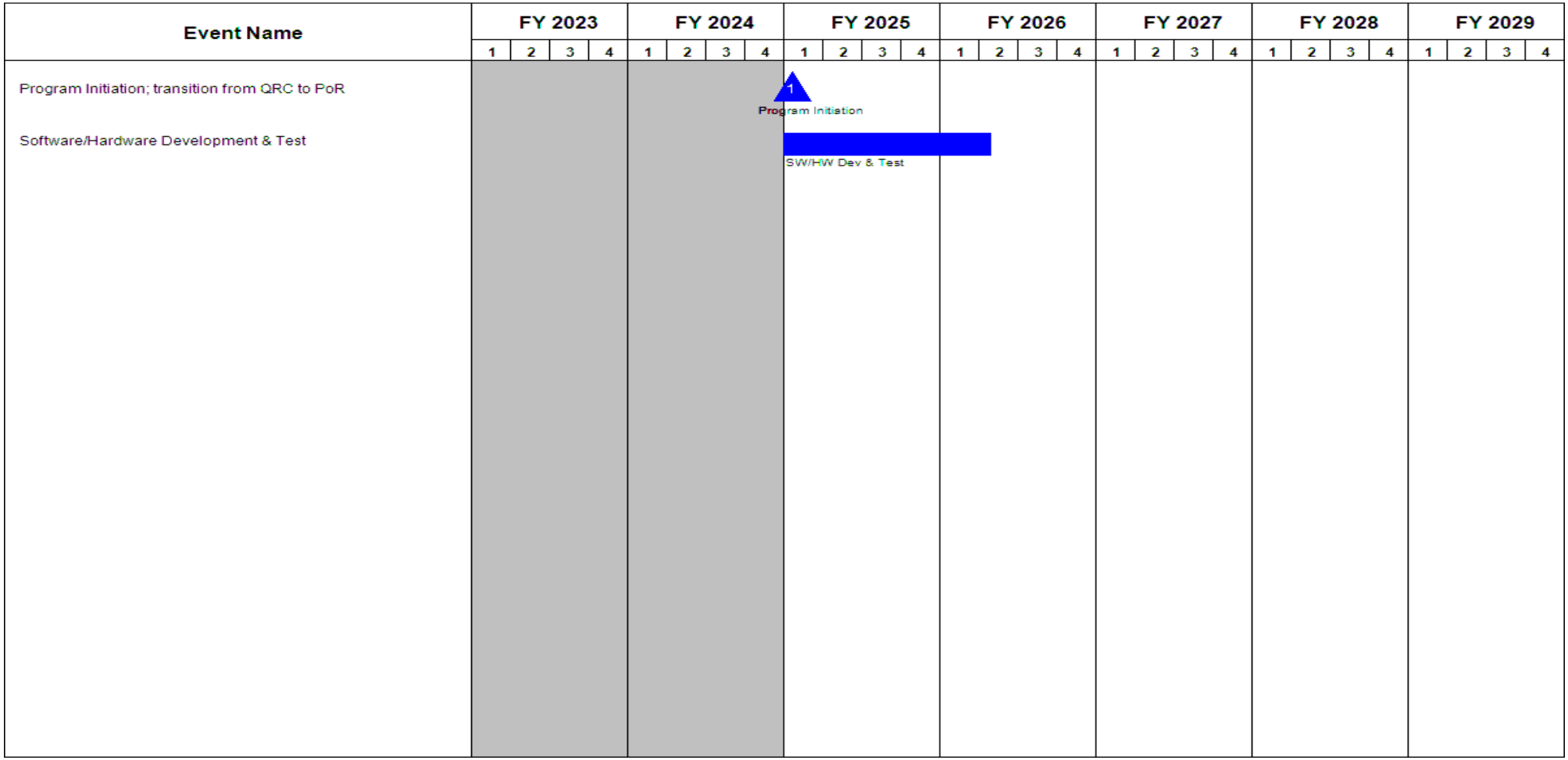


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605242A / *Theater SIGINT System (T SIGS)*	**Project (Number/Name)** DJ4 / *Theater SIGINT System (TSIGS)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Program Initiation; transition from QRC to PoR	1	2025	1	2025
Software/Hardware Development & Test	1	2025	2	2026

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 0605244A / *Joint Reduced Range Rocket (JR3)*

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	-	-	-	13.565	-	13.565	28.972	15.947	4.299	-	0.000	62.783
DJ3: *Joint Reduced Range Rocket*	-	-	-	13.565	-	13.565	28.972	15.947	4.299	-	0.000	62.783

Note

Joint Reduced Range Rocket (JR3) is a new start in FY 2025.

A. Mission Description and Budget Item Justification

In order to ensure units achieve and maintain combat readiness, the Army has a Standards in Training Commission (STRAC) requirement that utilizes a training rocket to meet the annual qualification and pre-deployment requirements for Active and National Guard High Mobility Artillery Rocket System (HIMARS) and M270A1/M270A2 Multiple Launch Rocket System (MLRS) launcher units. The Low Cost Reduced Range Practice Rocket (LCRRPR) is the current training rocket, however, due to limited supply of pods and motors that are repurposed for manufacture of LCRRPR, continued production is only feasible through FY 2030.

FY 2025 RDTE dollars in the amount of $13.565 million initiates development of the Joint Reduced Range Rocket (JR3). Upon completion of development and qualification, the JR3 will replace the currently fielded LCRRPR.

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	13.565	-	13.565
Total Adjustments	0.000	0.000	13.565	-	13.565
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	13.565	-	13.565

Change Summary Explanation

Addition of FY 2025 funds for initiation of the JR3 Program.

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 0605244A / *Joint Reduced Range Rock et (JR3)*	Project (Number/Name) DJ3 / *Joint Reduced Range Rocket*	

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
DJ3: *Joint Reduced Range Rocket*	-	-	-	13.565	-	13.565	28.972	15.947	4.299	-	0.000	62.783
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Joint Reduced Range Rocket is a new start within the Joint Reduced Range Rocket (JR3) program in FY 2025.

A. Mission Description and Budget Item Justification

In order to ensure units achieve and maintain combat readiness, the Army has a Standards in Training Commission (STRAC) requirement that utilizes a training rocket to meet the annual certification and pre-deployment requirements for Active and National Guard High Mobility Artillery Rocket System (HIMARS) and M270A1/M270A2 Multiple Launch Rocket System (MLRS) launcher units. The Low Cost Reduced Range Practice Rocket (LCRRPR) is the current training rocket, however, due to limited supply of pods and motors that are repurposed for manufacture of LCRRPR, continued production is only feasible through FY 2030.

FY 2025 RDTE dollars in the amount of $13.565 million initiates the development of the Joint Reduced Range Rocket (JR3). Upon completion of development and qualification, the JR3 will replace the currently fielded LCRRPR.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Joint Reduced Range Rocket	-	-	13.565
Description: The JR3 program will develop a new training rocket that can be fired by crews on the HIMARS and MLRS launchers. ***FY 2025 Plans:*** Award an Other Transactional Authority to support an initial system requirement review and to develop the design leading up to Interim Design Review #1. Utilize Aviation and Missile Center to support system analysis, trade studies, and prototyping software for launcher fire control system. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 is the first year for this effort.			
Accomplishments/Planned Programs Subtotals	-	-	13.565

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 0605244A / *Joint Reduced Range Rocket (JR3)*	**Project (Number/Name)** DJ3 / *Joint Reduced Range Rocket*

D. Acquisition Strategy

M28A2 LCRRPR utilizes motors last built in the mid-90s and inventories will be depleted by FY 2032 with no ability to replenish using current assets. JR3 is the replacement for the M28A2 LCRRPR and must be cut into production by FY 2029 to support HIMARS and MLRS crew training requirements. The JR3 program shall leverage mature rocket motor technologies to develop a new training rocket that results in a configuration that is affordable and supports the required production cut-in timeline. The JR3 rocket shall be integrated into a launch pod container (LPC) that shall be compatible with current HIMARS and MLRS launchers. The JR3 effort is planned to award under an Other Transactional Authority (OTA) in 2nd Quarter FY 2025 with system development completing in FY 2028.

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 0605244A / *Joint Reduced Range Rock et (JR3)*	Project (Number/Name) DJ3 / *Joint Reduced Range Rocket*	

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	Various	Various : Redstone Arsenal	-	-		-		0.866	Jan 2025	-		0.866	0.000	0.866	-
		Subtotal	-	-		-		0.866		-		0.866	0.000	0.866	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
Joint Reduced Range Rocket Contract	C/TBD	TBD : TBD	-	-		-		11.244	Mar 2025	-		11.244	0.000	11.244	-
Other Government Agencies	MIPR	AvMC : Redstone Arsenal	-	-		-		1.455	Jan 2025	-		1.455	0.000	1.455	-
		Subtotal	-	-		-		12.699		-		12.699	0.000	12.699	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	-	-		-		13.565		-		13.565	0.000	13.565	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 0605244A / *Joint Reduced Range Rock et (JR3)*	**Project (Number/Name)** DJ3 / *Joint Reduced Range Rocket*

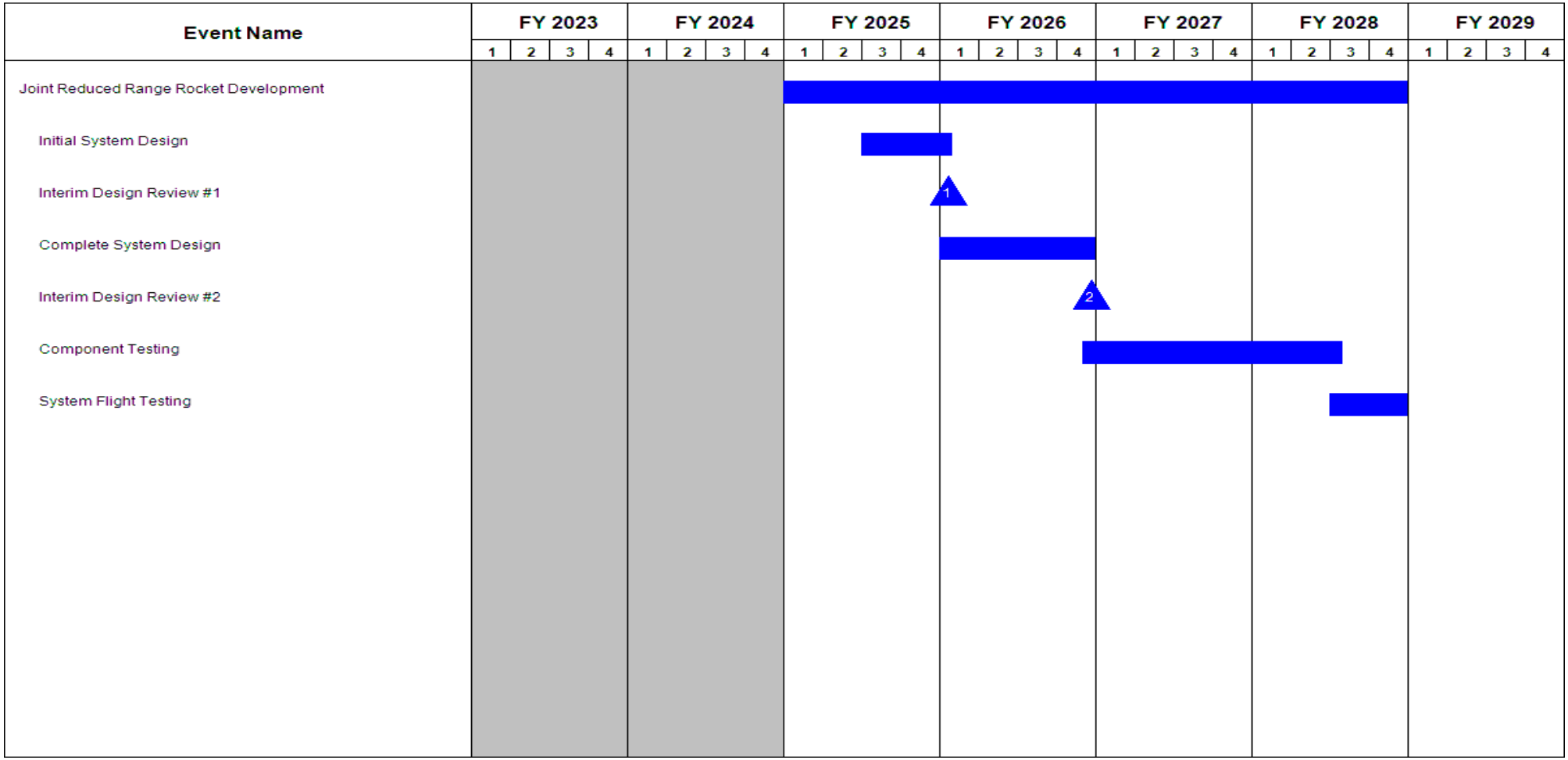


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605244A / *Joint Reduced Range Rocket (JR3)*	**Project (Number/Name)** DJ3 / *Joint Reduced Range Rocket*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Joint Reduced Range Rocket Development	1	2025	4	2028
Initial System Design	3	2025	1	2026
Interim Design Review #1	1	2026	1	2026
Complete System Design	1	2026	4	2026
Interim Design Review #2	4	2026	4	2026
Component Testing	4	2026	3	2028
System Flight Testing	3	2028	4	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 0605247A / *Spectrum Situational Awareness System (S2AS)*

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	0.000	9.330	0.000	9.330	5.007	0.000	0.000	0.000	0.000	14.337
DJ8: *Spectrum Situational Awareness System (S2AS)*	-	-	-	9.330	-	9.330	5.007	-	-	-	0.000	14.337

Note

Spectrum Situational Awareness System (S2AS) is a new start in FY 2025.

A. Mission Description and Budget Item Justification

Spectrum Situational Awareness System (S2AS) is a dedicated Electro-Magnetic Spectrum (EMS) situational awareness system that provides the Commander with real time EMS Situational Awareness to support Emissions Control (EMCON) decisions, Electromagnetic Interference (EMI) Resolution, and detect/warn operations centers of unauthorized or intentional sources of interference on today's complex battlefield.

In Fiscal Year (FY) 2025, $9.330 million of RDT&E will be used for integration, testing, and technical and program management support of the S2AS program.

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	9.330	-	9.330
Total Adjustments	0.000	0.000	9.330	-	9.330
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	9.330	-	9.330

Change Summary Explanation

S2AS is a New Start Program in FY2025. The funding increase for 0605247A is $9.330 million to support the integration, testing, and technical and program management support of the S2AS program.

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 0605247A / *Spectrum Situational Awareness System (S2AS)*	Project (Number/Name) DJ8 / *Spectrum Situational Awareness System (S2AS)*	

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
DJ8: *Spectrum Situational Awareness System (S2AS)*	-	-	-	9.330	-	9.330	5.007	-	-	-	0.000	14.337
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Spectrum Situational Awareness System (S2AS) is a new start within the Spectrum Situational Awareness System (S2AS) program in FY 2025.

A. Mission Description and Budget Item Justification

Spectrum Situational Awareness System (S2AS) is a dedicated Electro-Magnetic Spectrum (EMS) situational awareness system that provides the Commander with real time EMS Situational Awareness to support Emissions Control (EMCON) decisions, Electromagnetic Interference (EMI) Resolution, and detect/warn operations centers of unauthorized or intentional sources of interference on today's complex battlefield.

In Fiscal Year (FY) 2025, $9.330 million of RDT&E will be used for integration, testing, and technical and program management support of the S2AS program.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Equipment Integration, Testing, Technical and Program Management	-	-	9.330
Description: Provides funding for integration and testing, and technical and program management. ***FY 2025 Plans:*** $9.330 million of RDT&E will be used for integration, testing, and technical and program management support of the S2AS program. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** S2AS is a New Start Program in FY2025.			
Accomplishments/Planned Programs Subtotals	-	-	9.330

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 0605247A / *Spectrum Situational Awareness System (S2AS)*	**Project (Number/Name)** DJ8 / *Spectrum Situational Awareness System (S2AS)*

D. Acquisition Strategy

The S2AS program will use a tailored competitive acquisition approach to rapidly deliver an integrated spectrum monitoring capability on multiple platform types to align with Army 2030. The S2AS program will leverage authorities including, but not limited to Middle Tier of Acquisition to accelerate delivery through rapid prototyping with rapid fielding authorities or a Milestone C Decision Point.

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 0605247A / *Spectrum Situational Awareness System (S2AS)*	Project (Number/Name) DJ8 / *Spectrum Situational Awareness System (S2AS)*	

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
Technical Management Support	TBD	PM Electronic Warfare & Cyber : Aberdeen Proving Ground, MD	-	-		-		0.445	Jan 2025	-		0.445	0.000	0.445	-
		Subtotal	-	-		-		0.445		-		0.445	0.000	0.445	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 and Integration	TBD	TBD : TBD	-	-		-		5.075	Apr 2025	-		5.075	0.000	5.075	-
		Subtotal	-	-		-		5.075		-		5.075	0.000	5.075	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 and Technical Support	TBD	PM Electronic Warfare & Cyber : Aberdeen Proving Ground, MD	-	-		-		3.333	Jan 2025	-		3.333	0.000	3.333	-
		Subtotal	-	-		-		3.333		-		3.333	0.000	3.333	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 Demonstration	TBD	Various : TBD	-	-		-		0.477	Aug 2025	-		0.477	0.000	0.477	-
		Subtotal	-	-		-		0.477		-		0.477	0.000	0.477	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 0605247A / *Spectrum Situational Awareness System (S2AS)*	Project (Number/Name) DJ8 / *Spectrum Situational Awareness System (S2AS)*	

	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	-	-		-		9.330		-		9.330	0.000	9.330	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 0605247A / *Spectrum Situational Awareness System (S2AS)*	**Project (Number/Name)** DJ8 / *Spectrum Situational Awareness System (S2AS)*

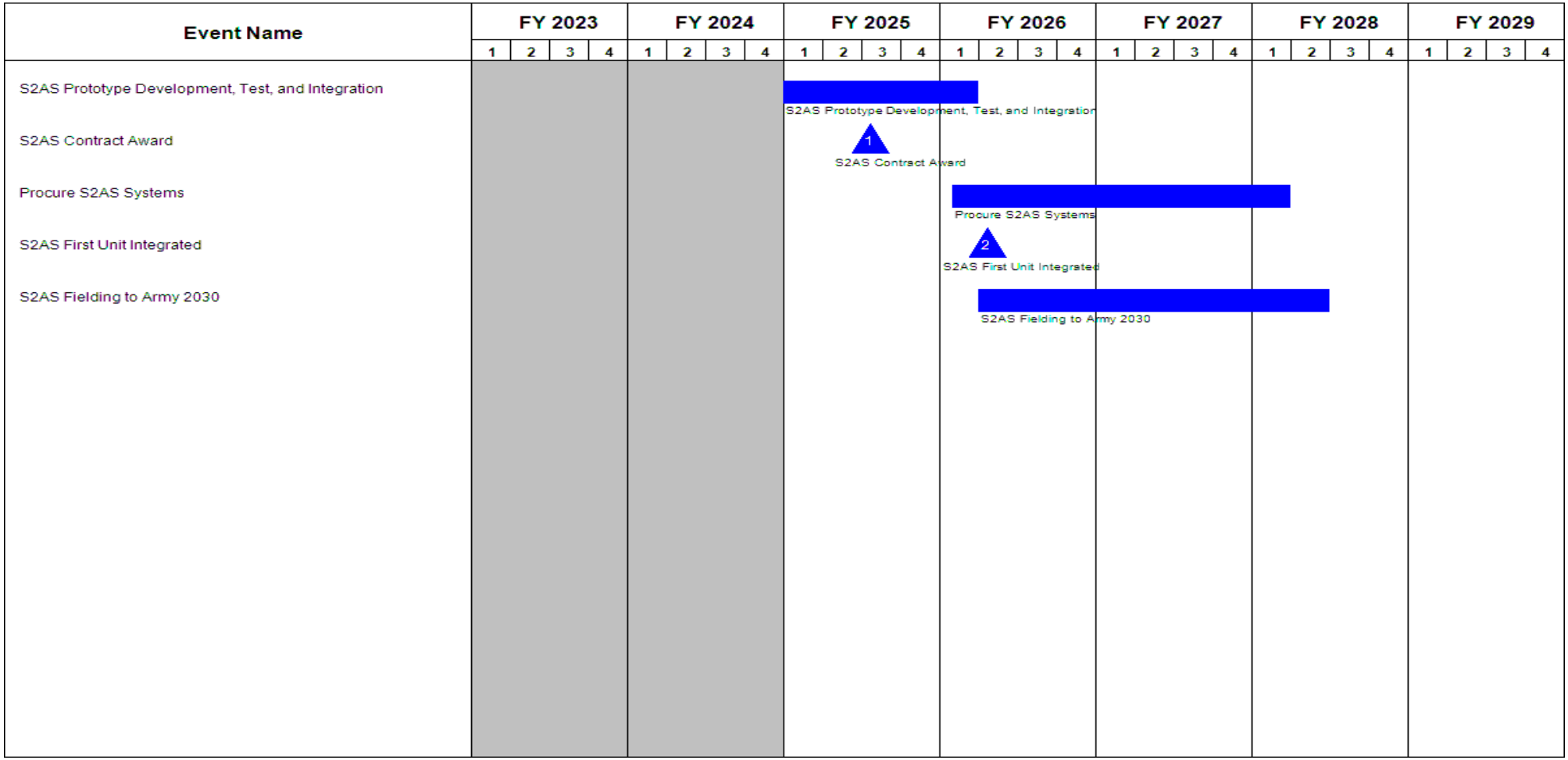


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605247A / *Spectrum Situational Awareness System (S2AS)*	**Project (Number/Name)** DJ8 / *Spectrum Situational Awareness System (S2AS)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
S2AS Prototype Development, Test, and Integration	1	2025	1	2026
S2AS Contract Award	3	2025	3	2025
Procure S2AS Systems	1	2026	1	2028
S2AS First Unit Integrated	2	2026	2	2026
S2AS Fielding to Army 2030	2	2026	2	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 0605450A *I Joint Air-to-Ground Missile (JAGM)*

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	2.280	3.014	3.030	0.000	3.030	0.000	0.000	0.000	0.000	Continuing	Continuing
JA6: *Joint Air-To-Ground Missile (JAGM)*	-	2.280	3.014	3.030	-	3.030	-	-	-	-	Continuing	Continuing

Program MDAP/MAIS Code: 355

A. Mission Description and Budget Item Justification

The AGM-179 Joint Air-to-Ground Missile (JAGM) program is an Army-led, Acquisition Category (ACAT) 1C Major Defense Acquisition Program (MDAP) with joint interest with the Navy, Marine Corps, and Air Force. JAGM is the next generation, multi-mode, air-to-ground munition replacing legacy HELLFIRE (HF) and HF Longbow munitions. JAGM will be used for destruction of high-value land and maritime targets, moving or stationary, and is capable of being fired from any platform currently firing HF from a US Army-issued M299 launcher. JAGM utilizes a HF back-end (propulsion, warhead and control system) with a new-design, Millimeter Wave (MMW) and Semi-Active Laser (SAL), multi-mode guidance section. The multi-mode capability provides fire-and-forget and precision-point targeting as well as unique, blended modes of each, for improved capability over legacy munitions.

FY 2025 dollars in the amount of $3.030 million will continue the objective platform review, analysis, and threat management.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	2.366	3.014	3.024	-	3.024
Current President's Budget	2.280	3.014	3.030	-	3.030
Total Adjustments	-0.086	0.000	0.006	-	0.006
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.001	-			
• SBIR/STTR Transfer	-0.087	-			
• Adjustments to Budget Years	-	-	0.006	-	0.006

Change Summary Explanation

Increased funding 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 0605450A / *Joint Air-to-Ground Missile (JAGM)*	Project (Number/Name) JA6 / *Joint Air-To-Ground Missile (JAGM)*	

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
JA6: *Joint Air-To-Ground Missile (JAGM)*	-	2.280	3.014	3.030	-	3.030	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The AGM-179 Joint Air-to-Ground Missile (JAGM) program is an Army-led, Acquisition Category (ACAT) IC Major Defense Acquisition Program (MDAP) with joint interest with the United States (U.S.) Air Force, U.S. Marine Corps (USMC), and U.S. Navy. The JAGM is the next generation of aviation-launched, fire and forget missiles to replace the HELLFIRE Laser and Longbow radar missiles. JAGM will be used by joint service aircraft for destruction of high value stationary, moving, and relocatable land and maritime targets from standoff range in day, night, adverse weather, and obscured battlefield conditions.

FY 2025 dollars in the amount of $3.030 million will continue the objective platform review, analysis, and threat management.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Integration and Counter Measure/Threat Management	2.280	3.014	3.030
Description: The Air-to-Ground Missile Systems (AGMS) Product Office and Other Government Agencies (OGAs) will continue objective platform review, analysis, and threat management. The AGMS Product Office and OGAs will perform technical assessments, concept studies, prepare documentation, and perform demonstrations and risk reduction efforts. ***FY 2024 Plans:*** The AGMS Product Office will continue to address design and development of Congressional mandates to include extended range motor and third sensor. AGMS teams will support development of technical documentation to include master test plans, specifications, diagrams, drawings, test reports, and requirements documentation. AGMS will also support long lead test procurement, risk reduction assessments, and all required design verification testing. ***FY 2025 Plans:*** The AGMS Product Office will continue to address design and development of Congressional mandates to include extended range motor and third sensor. AGMS teams will support development of technical documentation to include master test plans, specifications, diagrams, drawings, test reports, and requirements documentation. AGMS will also support long lead test procurement, risk reduction assessments, and all required design verification testing. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increased funding reflects planned lifecycle of the effort.			
Accomplishments/Planned Programs Subtotals	2.280	3.014	3.030

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 0605450A / *Joint Air-to-Ground Missile (JAGM)*	**Project (Number/Name)** JA6 / *Joint Air-To-Ground Missile (JAGM)*

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
• C70302: *Joint Air-to-Ground MSLS (JAGM)*	216.030	303.409	47.582	-	47.582	192.134	176.011	181.864	183.683	5,021.811	6,322.524
• NAVY - 0605450M: *Navy JAGM Missile RDT&E*	0.392	-	0.393	-	0.393	0.392	-	-	-	Continuing	Continuing
• NAVY - 0206138M: *Navy JAGM Missile Procurement*	79.804	-	76.838	-	76.838	79.804	-	-	-	Continuing	Continuing
• AF - 0201109F: *Air Force Missile Procurement*	-	-	-	-	-	-	-	-	-		

Remarks

D. Acquisition Strategy

JAGM received its Full Rate Production decision 21 September 2022 and declared IOC in March 2022. JAGM shares a production line with HELLFIRE and achieves minimum sustaining rate through a combination of procurements supporting Army, Air Force, Navy and FMS requirements. JAGM lowers Army missile costs by maximizing procurements with other services. JAGM mitigates obsolescence while maintaining combat overmatch through an Engineering Services Contract and uses Engineering Change Proposals for insertion of Safety, Reliability, Affordability, Producibility, and Obsolescence technologies as they mature.

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 0605450A / *Joint Air-to-Ground Missile (JAGM)*	Project (Number/Name) JA6 / *Joint Air-To-Ground Missile (JAGM)*	

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 Eng/ Project Management	C/LH	Various : Various	85.430	0.104	Mar 2023	0.195	Mar 2024	0.196	Mar 2025	-		0.196	Continuing	Continuing	Continuing
		Subtotal	85.430	0.104		0.195		0.196		-		0.196	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
JAGM Engineering Services	SS/CPFF	Lockheed Martin : Orlando, FL	10.212	1.300	Mar 2023	1.921	Mar 2024	1.934	Mar 2025	-		1.934	Continuing	Continuing	Continuing
		Subtotal	10.212	1.300		1.921		1.934		-		1.934	Continuing	Continuing	N/A

Remarks

(C / FFP) - Competitive/Firm Fixed Price
(C / CPFF) - Competitive/Cost-Plus Fixed Fee
(C / LH) - Competitive/Labor Hour
(SS / FFP) - Sole Source/Firm Fixed Price
(C / FPIF) - Competitive/Fixed Price Incentive (Firm Target)

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
Other Gov Agencies	C/LH	Various : Various	136.524	0.876	Mar 2023	0.898	Mar 2024	0.900	Mar 2025	-		0.900	Continuing	Continuing	Continuing
		Subtotal	136.524	0.876		0.898		0.900		-		0.900	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	232.166	2.280		3.014		3.030		-		3.030	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 0605450A / *Joint Air-to-Ground Missile (JAGM)*	**Project (Number/Name)** JA6 / *Joint Air-To-Ground Missile (JAGM)*

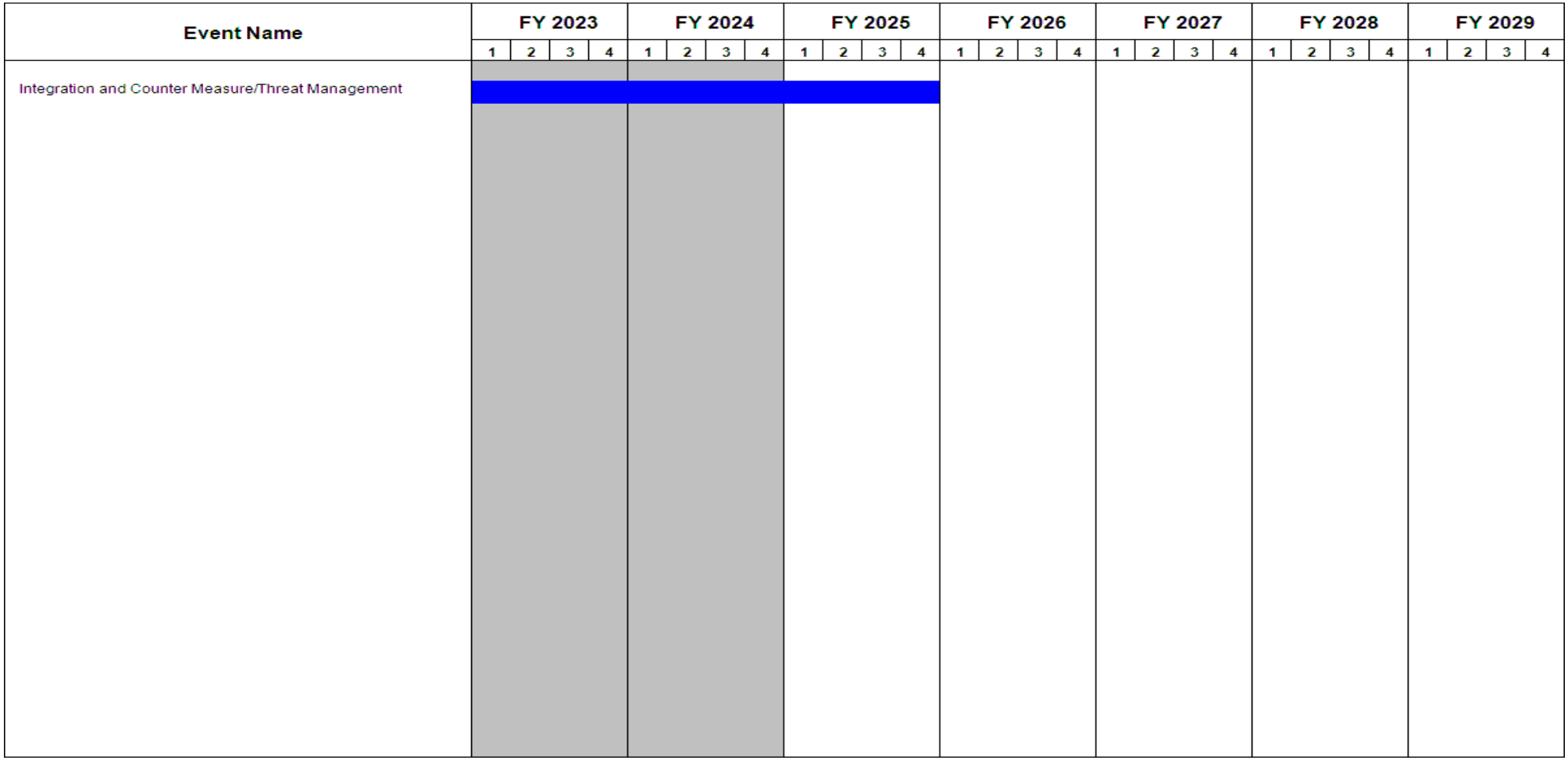


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605450A / *Joint Air-to-Ground Missile (JAGM)*	**Project (Number/Name)** JA6 / *Joint Air-To-Ground Missile (JAGM)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Integration and Counter Measure/Threat Management	1	2019	4	2025

Note

MS: Milestone
IOC: Initial Operational Capability
IOT&E: Initial Operational Test & Evaluation
CATM: Captive Air Training Missile
HW: Hardware
SW: Software

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 0605457A *I Army Integrated Air and Missile Defense (AIAMD)*							
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	-	245.791	284.095	602.045	-	602.045	529.043	416.826	312.065	316.661	0.000	2,706.526
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
SS1: *Remote Interceptor Guidance (RIG) 360 Dev and Int*	-	-	29.932	76.082	-	76.082	116.791	22.823	2.008	0.510	0.000	248.146
Program MDAP/MAIS Code: 205												

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the U.S. Army Air and Missile Defense (AMD) Modernization Priority. The Army Integrated Air and Missile Defense (AIAMD) program is a designated Major Defense Acquisition Program (MDAP), a critical component of the Army's AMD strategy, and is a top AMD Cross Functional Team modernization priority program with a significant Software Pathway element.

The AIAMD program is a direct response to the U.S. Army AMD Concept and Operational and Organizational (O&O) Plan for the Future Force, the AIAMD System of Systems (SoS) Capabilities Development Document (CDD) and the AMD Task Force Concept of Operations (CONOPS). The AIAMD Program is uniquely structured to enable the development of an overarching SoS capability with all participating Department of Defense (DoD) Air Defense Artillery (ADA) components functioning interdependently to provide total operational capabilities not achievable by the individual element systems. The AIAMD program achieves this objective by establishing the AIAMD SoS architecture and developing (1) the IAMD Battle Command Systems (IBCS) Engagement Operations Center (EOC) to provide the common Mission Command capability, (2) the Integrated Fire Control Relay capability for fire control connectivity and distributed operations, and (3) the common Plug and Fight (P&F) Kits to network-enable multiple sensor and weapon components including the IBCS EOC.

The AIAMD Program provides advanced capabilities to the Army through agile software development and a network-centric SoS capability that integrates AMD sensors and weapons with the IBCS EOC. The AIAMD SoS architecture enables extended range and non-line-of-sight engagements, to include joint kill chain engagements across the full spectrum of aerial threats, providing fire control quality data to the most appropriate weapon to complete the mission successfully. The system mitigates coverage gaps and single points of failure and provides the user with the ability to train on a single Command and Control (C2) system, resulting in overall training savings. The AIAMD program also provides the Army with the ability to procure components that interface with the Integrated Fire Control Network (IFCN).

AIAMD Initial Operation Capability (IOC) was declared on 24 April 2023. Fielding of the AIAMD SoS architecture including the IBCS EOC, IFCN Relay, Sentinel A3, and PATRIOT components. The open architecture enables integration and fielding of beyond IOC capabilities including, but not limited to, Lower Tier Air and Missile Defense Sensor (LTAMDS), Enduring Indirect Fire Protection Capability (IFPC), Air Defense Airspace Management (ADAM) Cells, ADA Brigade, and Army Air and Missile Defense Command (AAMDC) to meet emerging threats.

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 0605457A *I Army Integrated Air and Missile Defense (AIAMD)*

Remote Interceptor Guidance 360 (RIG-360) is a software-defined, X-band missile communications device that provides full hemispherical, 360-degree in-flight communications with the PATRIOT Advanced Capability 3 (PAC-3) family of interceptors. RIG-360 improves the performance of the PAC-3 family of interceptors and enables AIAMD to expand the area of control of the PAC-3 interceptors to their full kinematic potential and increases defensive effectiveness to full 360-degree coverage against attacking non-ballistic threats. RIG-360 supports interceptor communication, allowing PAC-3 family of missiles engagement independent from the PATRIOT radar or Lower Tier Air and Missile Defense Sensor. This de-coupling of interceptor from radar advances program goals to pair any sensor with the best shooter, and expands asset defense and engagement space supporting Multi Domain Operations and Large-Scale Combat Operations. By using the RIG-360 to communicate with PAC-3 interceptors, the IBCS can conduct engagements even if the radar is unavailable due to hardware failure, battle damage, or successful electronic attack.

Funding in the amount of $192.481 million supports Pacific Deterrence Initiative (PDI).

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	263.545	284.095	365.377	-	365.377
Current President's Budget	245.791	284.095	602.045	-	602.045
Total Adjustments	-17.754	0.000	236.668	-	236.668
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-8.500	-			
• SBIR/STTR Transfer	-9.254	-			
• Adjustments to Budget Years	-	-	236.668	-	236.668

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
Project: S40: *Army Integrated Air and Missile Defense*		
Congressional Add: *Kill Chain Automation*	10.000	-
Congressional Add Subtotals for Project: S40	10.000	-
Congressional Add Totals for all Projects	10.000	-

Change Summary Explanation

The increased funds expand the software development capability and increase software development capacity to enable multiple 1-N capability items such as: Sentinel A4, RIG-360, Army Long Range Persistent Surveillance (ALPS), F-35 Joint Striker and Terminal High Altitude Area Defense (THAAD) to be worked concurrently as defined by emerging joint Warfighter priorities. Additional increases in FY2025 funding are reflected in the updated independent cost estimate approved at Full Rate Production decision by the DAE.

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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*				Project (Number/Name) S40 / *Army Integrated Air and Missile Defense*			
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**
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
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the U.S. Army Air and Missile Defense (AMD) Modernization Priority. The Army Integrated Air and Missile Defense (AIAMD) program is a designated Major Defense Acquisition Program (MDAP), a critical component of the Army's AMD strategy, and is a top AMD Cross Functional Team modernization priority program with a significant Software Pathway element.

The AIAMD program is a direct response to the U.S. Army AMD Concept and Operational and Organizational (O&O) Plan for the Future Force, the AIAMD System of Systems (SoS) Capabilities Development Document (CDD) and the AMD Task Force Concept of Operations (CONOPS). The AIAMD Program is uniquely structured to enable the development of an overarching SoS capability with all participating Department of Defense (DoD) Air Defense Artillery (ADA) components functioning interdependently to provide total operational capabilities not achievable by the individual element systems. The AIAMD program achieves this objective by establishing the AIAMD SoS architecture and developing (1) the IAMD Battle Command Systems (IBCS) Engagement Operations Center (EOC) to provide the common Mission Command capability, (2) the Integrated Fire Control Relay capability for fire control connectivity and distributed operations, and (3) the common Plug and Fight (P&F) Kits to network-enable multiple sensor and weapon components including the IBCS EOC.

The AIAMD Program provides advanced capabilities to the Army through agile software development and a network-centric SoS capability that integrates AMD sensors and weapons with the IBCS EOC. The AIAMD SoS architecture enables extended range and non-line-of-sight engagements, to include joint kill chain engagements across the full spectrum of aerial threats, providing fire control quality data to the most appropriate weapon to complete the mission successfully. The system mitigates coverage gaps and single points of failure and provides the user with the ability to train on a single Command and Control (C2) system, resulting in overall training savings. The AIAMD program also provides the Army with the ability to procure components that interface with the Integrated Fire Control Network (IFCN).

AIAMD Initial Operation Capability (IOC) was declared on 24 April 2023. Fielding of the AIAMD SoS architecture including the IBCS EOC, IFCN Relay, Sentinel A3, and PATRIOT components. The government controlled open architecture enables integration and fielding of beyond IOC capabilities including, but not limited to, Lower Tier Air and Missile Defense Sensor (LTAMDS), Enduring Indirect Fire Protection Capability (IFPC), Air Defense Airspace Management (ADAM) Cells, ADA Brigade, and Army Air and Missile Defense Command (AAMDC) to meet emerging threats.

Funding in FY 2025 supports agile software development, updates and integration, developmental testing, requirements verification of the software build, operational testing, and integration activities for integrated fires capabilities. Funding provides for integration of additional Post-IOC 1-N Capabilities such as: Sentinel A4, RIG-360, Army Long Range Persistent Surveillance (ALPS), F-35 Joint Striker and Terminal High Altitude Area Defense (THAAD). Also included is the software development for Forward Area Air Defense Command and Control (FAAD C2) Convergence into IBCS as well as funding to support development of AMD capabilities. Funding in the amount of $140.820M supports Pacific Deterrence Initiative (Defense of Guam) planned architecture.

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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** S40 / *Army Integrated Air and Missile Defense*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Product Development - Beyond Initial Operational Capability (IOC)	184.690	157.251	326.097
Description: Product development in support of agile software development and integration efforts for additional capability beyond that fielded at IOC. ***FY 2024 Plans:*** Funding provides support for developmental software integration testing as well as continues the Defense of Guam support for the planned architecture. Agile software development continues to support enduring development efforts and includes software fixes and improvements to counter emerging threats and incorporate emerging technology. Funding continues the development, test, and integration of 1-N Capabilities to include ALPS, THAAD Planner, and F-35 Joint Striker. Funding supports JTMC Bridge Integration as well as IBCS development to support full weapon/threat planning and engagements. Funding also supports the continued development and integration of IFPC. ***FY 2025 Plans:*** Funding in FY2025 provides support for software development and integration testing as well as the Guam Defense Systems (GDS) support for the planned architecture. Agile software development continues to support enduring development efforts and includes software fixes and improvements to counter emerging threats and incorporate emerging technology. Funding supports IBCS agile software development and integration, developmental and operational testing and requirements verification of the software build, operational testing, and integration activities for integrated fires capabilities. It also expands software factory development capacity to enable multiple 1-N capability items to be worked concurrently as defined by emerging joint Warfighter priorities. Funding provided for integration of additional Post-IOC 1-N capabilities such as: Sentinel A4, RIG-360, Army Long Range Persistent Surveillance (ALPS), F-35 Joint Striker and Terminal High Altitude Area Defense (THAAD). In addition, funding provides for the continuation of the Software Integration Facility (SWIF) a Government-Owned, Government-Operated software development, integration, and test capability. Also included is the software development for Forward Area Air Defense Command and Control (FAAD C2) Convergence into IBCS, as well as funding to support development of AMD Capabilities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The increased funds expand the software development capability and increases software development capacity to enable multiple 1-N capability items such as: Sentinel A4, RIG-360, Army Long Range Persistent Surveillance (ALPS), F-35 Joint Striker and Terminal High Altitude Area Defense (THAAD) to be worked concurrently as defined by emerging joint Warfighter priorities. Additional increases in FY2025 funding are reflected in the updated independent cost estimate approved at Full Rate Production decision by the DAE.			
Title: Test and Evaluation - Beyond IOC Capability	51.101	96.912	199.866

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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** S40 / *Army Integrated Air and Missile Defense*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: Test and Evaluation support for modeling and simulation, developmental test, and follow-on operational test events for additional capability beyond that fielded at IOC. ***FY 2024 Plans:*** Continues Modeling and Simulation efforts at the Government Systems Integration Lab, Joint Interoperability Test Support, Army Test and Evaluation Center, Orange Flag, Project Convergence, Joint All-Domain Command and Control, Integrated Fires Test, and White Sands Missile Range test support for developmental test activities. Specific test efforts include: software development and software requirements verification, cyber testing, initial testing for F-35 and test planning of future developmental and operational tests. Funding includes test hardware requirements as well as lab infrastructure for additional test lines for RIG-360, JTMC, and THAAD Integration in support of Defense of Guam planned architecture and an increase to facilitate additional capability development. ***FY 2025 Plans:*** Continues Modeling and Simulation efforts at the Contractor Systems Integration Lab, Government Systems Integration Lab, Joint Interoperability Test Support, Army Test and Evaluation Center, Orange Flag, Project Convergence, Joint All-Domain Command and Control (JADC2), Integrated Fires Test Campaign (IFTC), and White Sands Missile Range test support for developmental test activities. Specific test efforts include: software development, component integration testing, software requirements verification, and system of systems capability validation consistent with the 1-N list. Funding includes test hardware requirements as well as lab infrastructure for additional test lines to integrate the 1-N list. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase in FY2025 funding supports additional test requirements.			
Accomplishments/Planned Programs Subtotals	235.791	254.163	525.963

	FY 2023	FY 2024
Congressional Add: Kill Chain Automation	10.000	-
FY 2023 Accomplishments: Funding continues support of design, code, and integration of kill-chain automation enhancements into the Integrated Battle Command System (IBCS). Funding also improves algorithms and techniques for target typing and Combat Identification to improve performance and reduce fratricide risks. Funding also improves design to the IBCS User Interface to streamline operator awareness and feedback for automated actions.		
Congressional Adds Subtotals	10.000	-

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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** S40 / *Army Integrated Air and Missile Defense*	

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
• C53101: *MSE Missile*	2,471.372	1,212.832	963.060	-	963.060	975.410	1,132.518	1,461.976	1,204.578	Continuing	Continuing
• EX2: *Lower Tier Air Missile Defense (LTAMD) Capability*	366.637	816.663	149.463	-	149.463	122.785	124.002	128.507	123.399	Continuing	Continuing
• EY7: *IFPC Increment 2 - Block 1*	126.308	196.248	138.553	-	138.553	117.923	10.862	11.139	136.733	Continuing	Continuing
• 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	Continuing	Continuing
• BZ5075: *IAMD Battle Command System*	459.343	412.556	403.028	-	403.028	584.262	651.373	449.114	509.060	Continuing	Continuing
• 146: *Air & Msl Defense Planning Control Sys*	1.209	26.367	19.996	-	19.996	15.243	15.529	15.790	15.952	Continuing	Continuing
• AD5070: *AIR & MSL Defense Planning & Control Sys*	72.619	68.892	80.011	-	80.011	-	-	-	-	0.000	221.522
• 0604403A: *Future Interceptor*	7.880	8.040	8.058	-	8.058	8.068	8.154	8.245	8.327	0.000	56.772
• 0604117A: *Maneuver - Short Range Air Defense (M-SHORAD)*	269.186	281.239	315.772	-	315.772	245.380	347.669	406.934	270.679	Continuing	Continuing
• C14300: *M-SHORAD - Procurement*	246.867	400.697	69.091	-	69.091	42.676	-	-	-	Continuing	Continuing

Remarks

This program is an integral part of the Army Integrated Air and Missile Defense (AIAMD) architecture providing development of a common Integrated Fire Control System via open architecture approach enabling integration of Air Defense Artillery (ADA) components as they become available. This approach enables the AIAMD program to maintain its baseline program independent of fluctuation of other programs.

D. Acquisition Strategy

The AIAMD acquisition strategy delivered an Initial Operational Capability (IOC) 24 April 2023. Capabilities continue to be delivered through the fielding of the IAMD Battle Command System (IBCS) based AIAMD architecture including the IBCS Engagement Operations Center (EOC), Sentinel A4, and PATRIOT (through a Radar Interface Unit (RIU)) components connected via an Integrated Fire Control Network (IFCN) Relay, working in an integrated manner while also incorporating the insertion of emerging technology. Future capabilities include but not limited to the incorporation of IBCS functionality into Enduring Indirect Fire Protection Capabilities (IFPC), Lower Tier Air and Missile Defense Sensor (LTAMDS), Army Persistent Surveillance System (ALPS), Terminal High Altitude Area Defense (THAAD) Planner, F-35 Joint Strike Fighter, and other Army and Joint weapon systems using an agile development process.

Key principles of the AIAMD acquisition approach are the following:

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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** S40 / *Army Integrated Air and Missile Defense*

- Migrate to competitive system of systems-based acquisition strategy, integrating components using agile development/operations methodology IAW FY 2019 National Defense Authorization Act direction.
- Use system-of-systems acquisition approach with collaboration among AIAMD, PEO MS, PEO C3T, and Brigade Combat Team (BCT) Modernization Component Project Offices, Missile Defense Agency (MDA), and other Service Project Offices to network-enable weapons and sensor components.
- Develop and procure a common Army IBCS EOC that replaces seven weapon system unique Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I) components.
- Establish product lines to evaluate and select, modify and integrate modular open systems hardware and software common configuration items.
- Conduct architecture-based System Engineering, Integration and Test (SEI&T) activities for an incrementally fielded configuration of the IAMD Integrated Fire Control Network compatible IBCS EOC, weapons and sensor system components to include testing of resiliency and survivability in a denied environment.
- The DAE approved AIAMD to enter the Software Acquisition Pathway (SWP) Execution Phase and LRIP Re-Characterization ADM on September 21, 2021.
The program continues to develop SW via the Agile development methodology. SW development provide a Min Viable product quarterly in the Program Increments (PI) and a Minimum Viable capability Release annually.
- The Follow-On Software Contract provides Agile developed software-based improvements and capability additions to the Air and Missile Defense (AMD) weapon systems.
- Software testing occurs at the end of each PI starting with functional testing at the Contractor System Integration Lab (C-SIL), followed by regression and performance testing for requirements validation in the government System Integration lab (G-SIL). Software is then delivered to WSMR for developmental testing with tactical Sensors and Weapons.
- The program software path forward includes the engineering, development, and integration of capabilities to support LRIP, FOTE and Full Rate Production. PIs 21-24 (FY25) include correcting SW defects and enhancements identified in the Operational Assessments (OA) for IFPC and LTAMDS, and the Developmental Testing (DT) in preparation for FOTE. Additional engineering, development and testing in FY25 will include support of DT for Sentinel A4 and RIG-360, engineering for ALPS, THAAD, FAAD C2 Convergence and the Guam Defense System requirements.
- Establish a Government-Owned, Government-Operated (GO-GO) software integration facility (SWIF) on Redstone Arsenal, AL. The SWIF is a software development, integration and test environment that provides digital engineering, and system of system integration capabilities.
- The common fires mission command program is the centerpiece 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.
-Additional development to establish future software testing and integration activities at the SWIF.

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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** S40 / *Army Integrated Air and Missile Defense*

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
AIAMD System Engineering & Integration	C/CPFF	Various : Huntsville, AL	252.113	14.592	Mar 2023	23.986	Oct 2023	31.023	Oct 2024	-		31.023	Continuing	Continuing	Continuing
AIAMD Capability Development	SS/ Various	Northrop Grumman, Raytheon, Lockheed Martin and Other : Huntsville, AL and Various other locations	-	42.164	Mar 2023	84.046	Oct 2023	140.820	Oct 2024	-		140.820	Continuing	Continuing	Continuing
Government Systems Engineering and Logistics	Various	Various : Huntsville, AL	139.356	10.218	Dec 2022	15.015	Oct 2023	22.391	Oct 2024	-		22.391	Continuing	Continuing	Continuing
Army 1-N Capability	Various	Various : TBD	-	10.670	Feb 2023	17.467	Oct 2023	48.558	Oct 2024	-		48.558	Continuing	Continuing	Continuing
Kill Chain Automation	Various	Various : Huntsville, AL; Grande Prairie, TX; Oklahoma City	6.000	10.000	Apr 2023	-		-		-		-	0.000	16.000	Continuing
RIG-360	SS/IDIQ	Lockheed Martin : Huntsville, AL and Grand Prairie, TX	4.000	45.611	Mar 2023	-		-		-		-	0.000	49.611	-
Guam Defense Systems	Various	Various : Various	-	61.435	Jun 2023	22.596	Oct 2023	56.328	Oct 2024	-		56.328	0.000	140.359	-
Software Integration Facility	Various	Various : Various	-	-		21.400	Oct 2023	26.977	Oct 2024	-		26.977	0.000	48.377	-
		Subtotal	401.469	194.690		184.510		326.097		-		326.097	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
Other Test Activities/ Army Evaluation Center/ Developmental Test Command/Operational Test Command	MIPR	Various : Multiple Locations	135.046	10.351	Apr 2023	13.028	Oct 2023	23.075	Oct 2024	-		23.075	Continuing	Continuing	Continuing
Modeling & Sim/Joint Interoperability Test Spt	MIPR	SED : Huntsville, AL	262.617	13.352	Apr 2023	17.982	Oct 2023	31.151	Oct 2024	-		31.151	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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** S40 / *Army Integrated Air and Missile Defense*

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
Range Support	MIPR	WSMR : White Sands, NM	106.566	7.970	Apr 2023	10.079	Oct 2023	24.228	Oct 2024	-		24.228	Continuing	Continuing	Continuing
Army 1-N Capability	Various	Various : Various	-	-		13.500	Oct 2023	36.920	Oct 2024	-		36.920	Continuing	Continuing	Continuing
Guam Defense Systems	Various	Various : Various	-	19.428	Jun 2023	15.064	Oct 2023	84.492	Oct 2024	-		84.492	Continuing	Continuing	-
		Subtotal	504.229	51.101		69.653		199.866		-		199.866	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	905.698	245.791		254.163		525.963		-		525.963	Continuing	Continuing	N/A

Remarks

The AIAMD Capability Development funding increase provides for additional software capacity. This capacity increase includes funding for threat updates, cyber posture, human system integration (HSI) changes, baseline maintenance and capacity to complete software backlog requirements. This also accelerates development of the following base program capabilities, LTAMDS, PATRIOT, Sentinel A3 and IFPC.

AMD 1-N provides effort for the program to continue development of User prioritized 1-N enduring capability requirements. These requirements are reviewed and revalidated by the Warfighter yearly to ensure priority synchronization. The increase funding provides for integration of Sentinel A4, JTMC Bridge, FAAD C2/IBCS Tactical and AMDPCS.

The Guam Defense Systems test increase is due to cost associated with OCONUS testing (shipping, range infrastructure requirements, TDY, range execution personnel); complex testing scenarios, TBM Targets development to meet requirements, Robust Flight Test matrix with Developmental Test as risk reduction. Pre-Flight Lab Work for pre-mission analysis, Joint external test participants and range safety data packages.

FY2025 AIAMD PE includes Guam Defense Systems funding to support Sentinel, LTAMDS and PATRIOT integration efforts.

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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** S40 / *Army Integrated Air and Missile Defense*

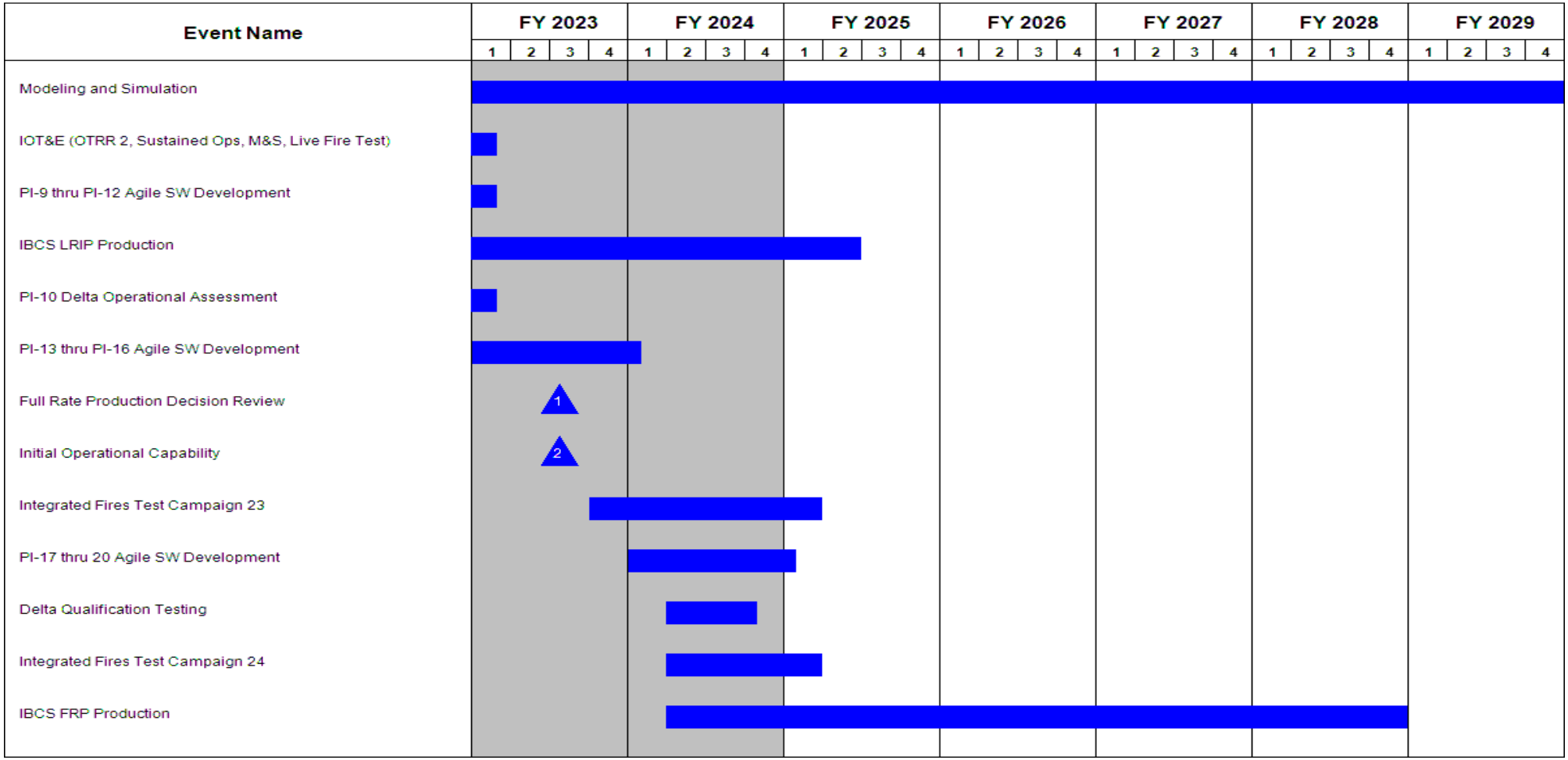


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** S40 / *Army Integrated Air and Missile Defense*

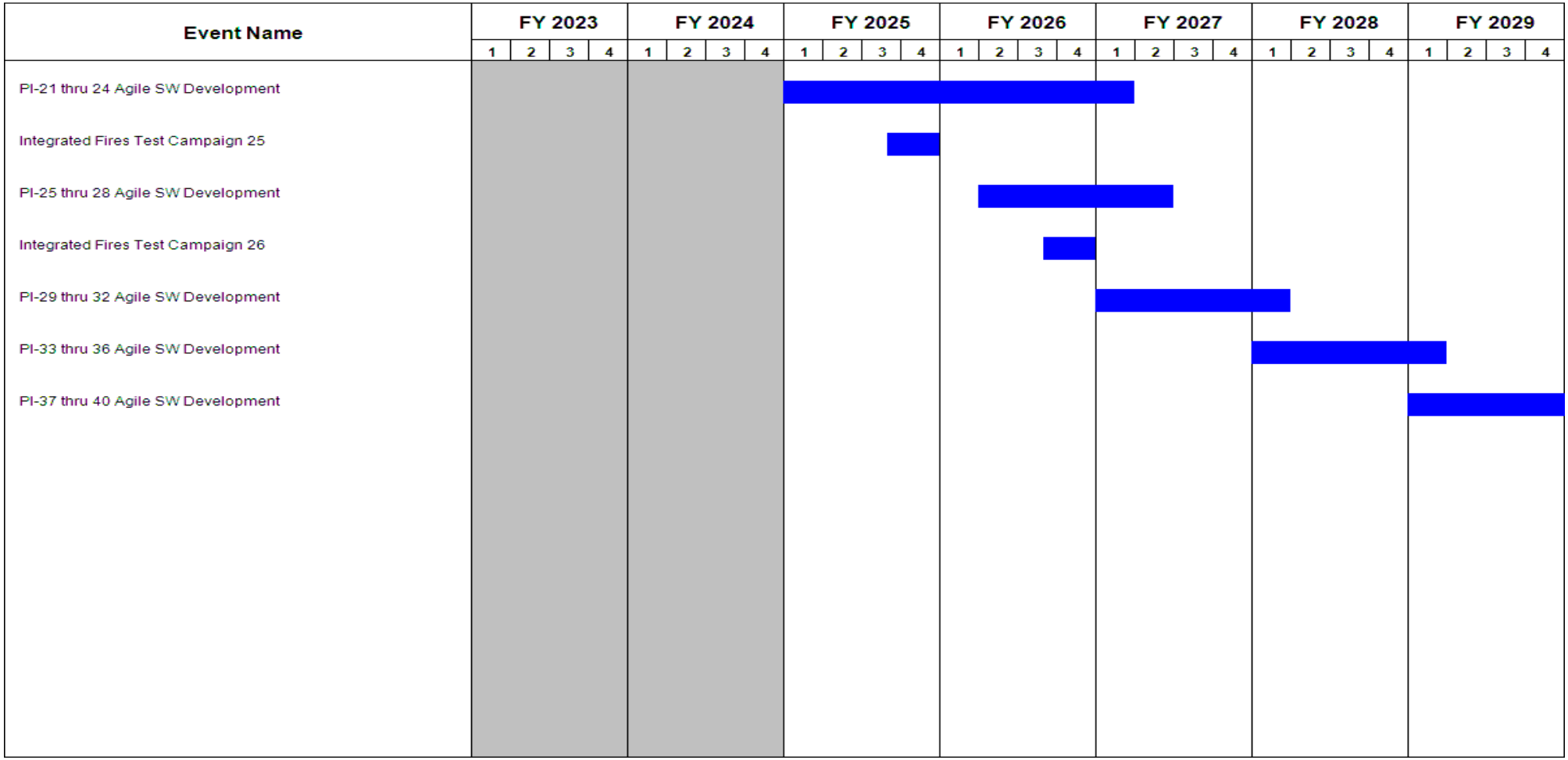


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** S40 / *Army Integrated Air and Missile Defense*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Modeling and Simulation	1	2013	4	2029
EMD Developmental Test (DT)	4	2014	1	2017
Product Readiness Review (PRR)	4	2016	4	2016
EMD DT Continuation	1	2018	1	2020
v4.5.0 Software (SW) Development	2	2018	1	2020
v4.5.0 Developmental Ground/Flight Testing	3	2019	1	2020
PI-1 thru PI-4 Agile SW Development	1	2020	4	2020
Software Version 4.6.0 Capabilities Review	3	2020	3	2020
Limited User Test	4	2020	4	2020
PI-5 thru PI-8 Agile SW Development (IOT&E SW)	1	2021	1	2022
Milestone C Decision	2	2021	2	2021
PI-5 thru PI-8 Dev Ground/Flight Testing (IOT&E SW)	2	2021	1	2022
Software Version 4.6.1 Capabilities Review	3	2021	3	2021
IOT&E (OTRR 2, Sustained Ops, M&S, Live Fire Test)	1	2022	1	2023
PI-9 thru PI-12 Agile SW Development	1	2022	1	2023
IBCS LRIP Production	2	2022	2	2025
PI-10 Delta Operational Assessment	4	2022	1	2023
PI-13 thru PI-16 Agile SW Development	1	2023	1	2024
Full Rate Production Decision Review	3	2023	3	2023
Initial Operational Capability	3	2023	3	2023
Integrated Fires Test Campaign 23	4	2023	1	2025
PI-17 thru 20 Agile SW Development	1	2024	1	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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** S40 / *Army Integrated Air and Missile Defense*

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Delta Qualification Testing	2	2024	4	2024
Integrated Fires Test Campaign 24	2	2024	1	2025
IBCS FRP Production	2	2024	4	2028
PI-21 thru 24 Agile SW Development	1	2025	1	2027
Integrated Fires Test Campaign 25	3	2025	4	2025
PI-25 thru 28 Agile SW Development	2	2026	2	2027
Integrated Fires Test Campaign 26	3	2026	4	2026
PI-29 thru 32 Agile SW Development	1	2027	1	2028
PI-33 thru 36 Agile SW Development	1	2028	1	2029
PI-37 thru 40 Agile SW Development	1	2029	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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	Project (Number/Name) SS1 / *Remote Interceptor Guidance (RIG) 360 Dev and Int*	

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
SS1: *Remote Interceptor Guidance (RIG) 360 Dev and Int*	-	-	29.932	76.082	-	76.082	116.791	22.823	2.008	0.510	0.000	248.146
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the U.S. Army Air and Missile Defense (AMD) Modernization Priority. The Army Integrated Air and Missile Defense (AIAMD) program is a designated Major Defense Acquisition Program (MDAP), a critical component of the Army's AMD strategy, and is a top AMD Cross Functional Team modernization priority program.

Remote Interceptor Guidance 360 (RIG-360) is a software-defined, X-band missile communications device that provides full hemispherical, 360-degree in-flight communications with IAMD Composite Task Force interceptors to include the PATRIOT Advanced Capability 3 (PAC-3) family of interceptors. The RIG-360 program provides additional follow-on capability to the AIAMD architecture. RIG-360 improves the performance of the PAC-3 family of interceptors and enables AIAMD to expand the area of control of the PAC-3 interceptors to their full kinematic potential and increases defense effectiveness to full 360 degree coverage against attacking non-ballistic threats. Provides a 360-degree engagement capability leveraging sensors integrated within the IBCS architecture by integrating an interceptor datalink device as a network component. Integration of an independent, adapted IFPC Uplinker into IBCS will support PAC-3/MSE and IPFC Family of Interceptor engagements and advances IAMD goals of pairing any sensor with best shooter.

The RIG-360 consists of two Major End Items, the Control Assembly and Array Assembly. The Control Assembly, in a rack mounted case, is the control node for the Array Assembly and serves as the Adaptation Kit (A-Kit) to the Integrated Fire Control Network. The rack mounted case provides outer ruggedness to environmental conditions with internal shock isolation, while allowing easy interchange of power supplies, server components, or other components as required within an industry standard rack assembly. The RIG-360 Array Assembly is a mast-mounted, X-band array of antennas that transmit and receive the interceptor radio frequency PAC-3 missile communication waveforms.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: RIG-360 Development	-	28.281	71.894
Description: RIG-360 development provides a 360-degree engagement capability leveraging sensors integrated within the IBCS architecture by integrating an interceptor datalink device as a network component. FY 2024 planned accomplishments are continued component development, completion of a Preliminary Design Review and development testing.			
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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** SS1 / *Remote Interceptor Guidance (RIG) 360 Dev and Int*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Continued component development, completion of a Preliminary Design Review and provides support for developmental test activities. ***FY 2025 Plans:*** Continues development of RIG-360 PAC/MSE Uplinker. Conduct Critical Design review and functional design audit in support of operational testing. Procure 2 prototypes to support Operation Testing. Begin development of IFPC Uplinker in support of the IFPC family of interceptors. Procure 3 prototypes to support developmental testing of AIM 9X Uplinker. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase due to initiation of the development of AIM 9X Uplinker effort in FY2025.			
Title: Test and Evaluation ***Description:*** Test and Evaluation in support of RIG-360 PAC3/MSE Family of Interceptors. ***FY 2024 Plans:*** Provides support for preparation and conduct of developmental test activities. ***FY 2025 Plans:*** Conduct Operational testing of RIG-360 PAC 3 MSE Uplinker. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase attributed to the ongoing development of RIG-360 PAC/MSE Uplinker.	-	1.651	4.188
Accomplishments/Planned Programs Subtotals	-	29.932	76.082

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
• 0605457A: *Army Integrated Air and Missile Defense (AIAMD)*	245.791	284.095	602.045	-	602.045	529.043	416.826	312.065	316.661	Continuing	Continuing
• BZ5075: *IAMD Battle Command System*	459.343	412.556	403.028	-	403.028	584.262	651.373	449.114	509.060	Continuing	Continuing
• DV8: *Patriot Product Improvement*	146.753	177.197	82.220	-	82.220	168.617	165.083	226.762	223.166	Continuing	Continuing
• C50700: *Patriot Mods*	462.959	212.247	171.958	-	171.958	760.673	1,821.040	1,004.129	832.309	Continuing	Continuing
• CA0267: *PATRIOT MODIFICATION INITIAL SPARES*	6.508	6.573	6.695	-	6.695	6.671	6.680	6.687	6.755	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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** SS1 / *Remote Interceptor Guidance (RIG) 360 Dev and Int*

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

RIG-360 is a Major Capability Acquisition program entering at Milestone B. As directed in the 19 April 2022 Acquisition Decision Memorandum signed by the Army Acquisition Executive, the Program Executive Officer Missiles and Space is the Milestone Decision Authority for this Acquisition Category (ACAT) III program. The program had a successful Milestone B Decision in December 2022. Contract was awarded 4Q FY 2023. The RIG-360 development program objectives include requirements definition, system design and analysis, qualification, and integration and test activities for a production representative RIG-360 device. A sole source contract will be awarded to Lockheed Martin Missiles and Fire Control (LMMFC) in Grand Prairie, Texas. LMMFC is the sole developer and producer of the RIG-360 capability. They are also the only source with the knowledge, technical expertise, facilities, and the technical data to support Integrated Battle Command System integration and testing efforts related to RIG-360 uplink capabilities. The Government will procure a full production baseline Technical Data Package for the primary RIG-360 components (control assembly, antenna array and equipment platform) to include all technical data as documented in the approved product development design. The contractor will conduct a System Requirements Review, Preliminary Design Review, Critical Design Review, and Functional Configuration Audit for the RIG-360 program. All technical reviews will have pre-defined entrance and exit criteria agreed-to by the Government. Component testing will be conducted in conjunction with AIAMD developmental and operational testing to verify performance of the Major End Item. The program is planning for a Milestone C/Full Rate Production Decision 4Q FY 2026.

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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** SS1 / *Remote Interceptor Guidance (RIG) 360 Dev and Int*

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
RIG-360 Engineering Manufacturing and Development	SS/ Various	Lockheed Martin Missile and Fire Control, Northrop Grumman : Grand Prairie, Texas; Huntsville, AL	-	-		25.305	Oct 2023	66.845	Oct 2024	-		66.845	0.000	92.150	-
System Engineering and Integration	Various	Various : Various	-	-		2.076	Oct 2023	3.766	Oct 2024	-		3.766	0.000	5.842	-
RIG-360 Program Management	TBD	Government : Various	-	-		0.900	Oct 2023	1.283	Oct 2024	-		1.283	0.000	2.183	-
		Subtotal	-	-		28.281		71.894		-		71.894	0.000	100.175	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
RIG-360 Test and Evaluation	Various	Various : Various	-	-		1.651	Oct 2023	4.188	Oct 2024	-		4.188	0.000	5.839	-
		Subtotal	-	-		1.651		4.188		-		4.188	0.000	5.839	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	-	-		29.932		76.082		-		76.082	0.000	106.014	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 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** SS1 / *Remote Interceptor Guidance (RIG) 360 Dev and Int*

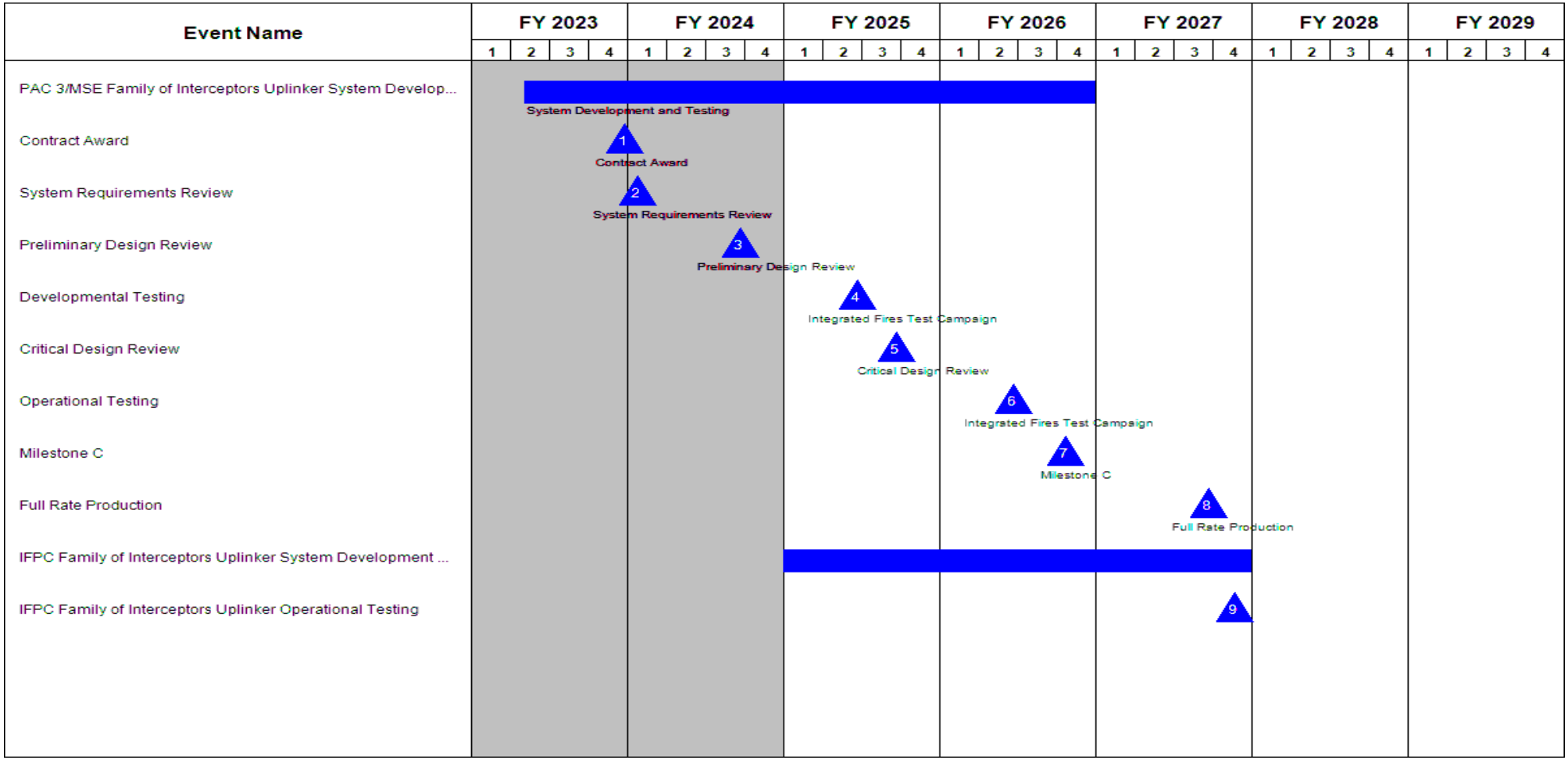


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605457A / *Army Integrated Air and Missile Defense (AIAMD)*	**Project (Number/Name)** SS1 / *Remote Interceptor Guidance (RIG) 360 Dev and Int*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
PAC 3/MSE Family of Interceptors Uplinker System Development and Testing	2	2023	4	2026
Contract Award	4	2023	4	2023
System Requirements Review	1	2024	1	2024
Preliminary Design Review	3	2024	3	2024
Developmental Testing	2	2025	2	2025
Critical Design Review	3	2025	3	2025
Operational Testing	2	2026	2	2026
Milestone C	4	2026	4	2026
Full Rate Production	3	2027	3	2027
IFPC Family of Interceptors Uplinker System Development and Testing	1	2025	4	2027
IFPC Family of Interceptors Uplinker Operational Testing	4	2027	4	2027

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 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*

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	-	11.548	36.016	59.563	-	59.563	55.348	50.680	55.924	56.483	0.000	325.562
CQ7: *C-sUAS Joint New Capabilities*	-	8.719	30.351	53.230	-	53.230	50.018	45.350	50.594	51.153	0.000	289.415
CQ8: *C-sUAS Joint Enabling Capabilities*	-	2.829	5.665	6.333	-	6.333	5.330	5.330	5.330	5.330	0.000	36.147

A. Mission Description and Budget Item Justification

The Secretary of Defense (SecDef) designated the Secretary of the Army (SA) as the Department of Defense's (DoD) Executive Agent (EA) for Counter-small Unmanned Aircraft Systems (C-sUAS). The EA is tasked with leading, directing, and synchronizing DoD efforts to counter small Unmanned Aircraft System (sUAS) threats while minimizing unnecessary duplication and redundancy. The C-sUAS efforts are in response to the DoD Joint Requirements Oversight Council Memorandum (JROC-M) requirement for identification, development, testing, evaluation, and integration of technologies to defeat sUAS threats across the DoD. The C-sUAS efforts provide warfighters the ability to comprehensively detect, track, identify, and defeat enemy Group 1, 2 and 3 UAS platforms. The efforts will be joint development efforts to provide integrated solutions to meet the needs of the Military Services and DoD Agencies against emerging threats.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	14.892	36.016	40.481	-	40.481
Current President's Budget	11.548	36.016	59.563	-	59.563
Total Adjustments	-3.344	0.000	19.082	-	19.082
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-2.801	-			
• SBIR/STTR Transfer	-0.543	-			
• Adjustments to Budget Years	-	-	19.082	-	19.082

Change Summary Explanation

Increase of $19.082 million reflects additional efforts for development and integration efforts for Roadrunner (kinetic effector) and the Advanced Precision Kill Weapon System (APWKS; kinetic effector) and 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 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	Project (Number/Name) CQ7 / *C-sUAS Joint New Capabilities*	

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
CQ7: *C-sUAS Joint New Capabilities*	-	8.719	30.351	53.230	-	53.230	50.018	45.350	50.594	51.153	0.000	289.415
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Counter- small Unmanned Aircraft Systems (C-sUAS) new joint capability efforts develop new technologies and programs to enable joint acquisition programs to counter Groups 1-3 s UAS threats. These developments are aligned with the Joint Requirements Oversight Council Memorandum 078-20 Operational Requirements. Joint solutions will address Fixed Site / Semi-Fixed Site, Mobile, and Dismounted required by the Joint Forces. Efforts include development, test and evaluation, and integration sufficient for transition to fieldable capabilities.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Counter-small Unmanned Aircraft Development Defeat	8.719	14.781	22.100
Description: Development, test & evaluation, and integration of new technologies to defeat sUAS. ***FY 2024 Plans:*** Continue the development, integration, and test of new technologies to defeat sUAS. Within the Special Application Module, integrate with the latest electronic warfare defeat software, assess the current Software Defined Radio (SDR) and antenna, implement a government owned advanced Positioning, Navigation, and Timing (PNT) software solution, and current Group 1-3 Advance Kinetic Defeat. ***FY 2025 Plans:*** Continue the system development, integration, and test of new technologies to defeat sUAS to inform systems transition. Within Advanced Kinetic Defeat, develop advanced sensor package that assist in higher defeat efficacy for Group 3 sUAS and system development and integration for the Advanced Precision Kill Weapons System (APKWS). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY2025 increase of $7.319 million supports the development of upgrade components for fixed site and mobile launcher for Advanced Kinetic Defeat missiles and APKWS integration with Common Remotely Operated Weapon System (CROWS).			
Title: Counter-small Unmanned Aircraft Development Command and Control	-	15.570	31.130
Description: Development, test & evaluation, and integration of new technologies to improve command and control for C-sUAS. ***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 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	**Project (Number/Name)** CQ7 / *C-sUAS Joint New Capabilities*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Continue the development, integration and test of new technologies to reduce operator burden, increase situational awareness, automate/autonomy for decision making, and improve interoperability of C-sUAS system. High Level Data Fusion effort develops data products and standards for Data Fusion Architectures and transition to Services for use in C-sUAS C2 Systems and support ongoing assessments at the Fusion Integration and Evaluation Lab. Cross Domain Solution continues prototyping efforts, testing, and approval of the bi-directional cross domain solution. Advanced command and control adds new capabilities to the current joint FAAD C2 system. ***FY 2025 Plans:*** Continue the development, integration and test of new technologies to reduce operator burden, increase situational awareness, automate/autonomy for decision making, and improve interoperability of C-sUAS systems. Advanced command and control adds new capabilities integration to the current joint Forward Area Air Defense Command and Control (FAAD) C2 system. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY2025 increase of $15.560 million supports integration of Roadrunner and APKWS integration with FAAD C2.			
Accomplishments/Planned Programs Subtotals	8.719	30.351	53.230

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The Joint C-sUAS new capability will address the Joint Requirements Oversight Council Memorandum (JROCM) 078-20 and be approved by the Department of Defense C-sUAS Executive Agent (EA) Governance. The C-sUAS EA Governance will approve the development efforts that meet identified gaps and the joint capability will be funded under this Program Element. The Joint Counter-sUAS Office will identify modifications to existing systems or identify new technologies within industry and Government S&T organization. Programs will leverage the flexibility of the Adaptive Acquisition Framework, and Service Acquisition Policies, and pursue a combination of acquisition pathways to deliver prototypes for evaluation and future decisions. Upon completion, Services will utilize a common procurement contract to meet the needs of the Military Services and DoD Agencies.

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 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	Project (Number/Name) CQ7 / *C-sUAS Joint New Capabilities*	

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
Low Collateral Effects Interceptor Development and Integration	TBD	Various : Various	13.260	4.719		-		-		-		-	Continuing	Continuing	Continuing
High Level Data Fusion	TBD	Various : Various	3.000	1.000		1.000		1.000		-		1.000	Continuing	Continuing	Continuing
Cross Domain Solution	TBD	Various : Various	2.000	3.000		3.000		3.000		-		3.000	Continuing	Continuing	Continuing
Special Application Module	TBD	Various : Various	-	-		5.170		-		-		-	Continuing	Continuing	Continuing
Advanced Command and Control	TBD	Various : Various	-	-		11.570		31.130		-		31.130	Continuing	Continuing	Continuing
Advanced Kinetic Defeat	TBD	Various : Various	-	-		9.611		18.100		-		18.100	Continuing	Continuing	Continuing
		Subtotal	18.260	8.719		30.351		53.230		-		53.230	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	18.260	8.719		30.351		53.230		-		53.230	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 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	**Project (Number/Name)** CQ7 / *C-sUAS Joint New Capabilities*

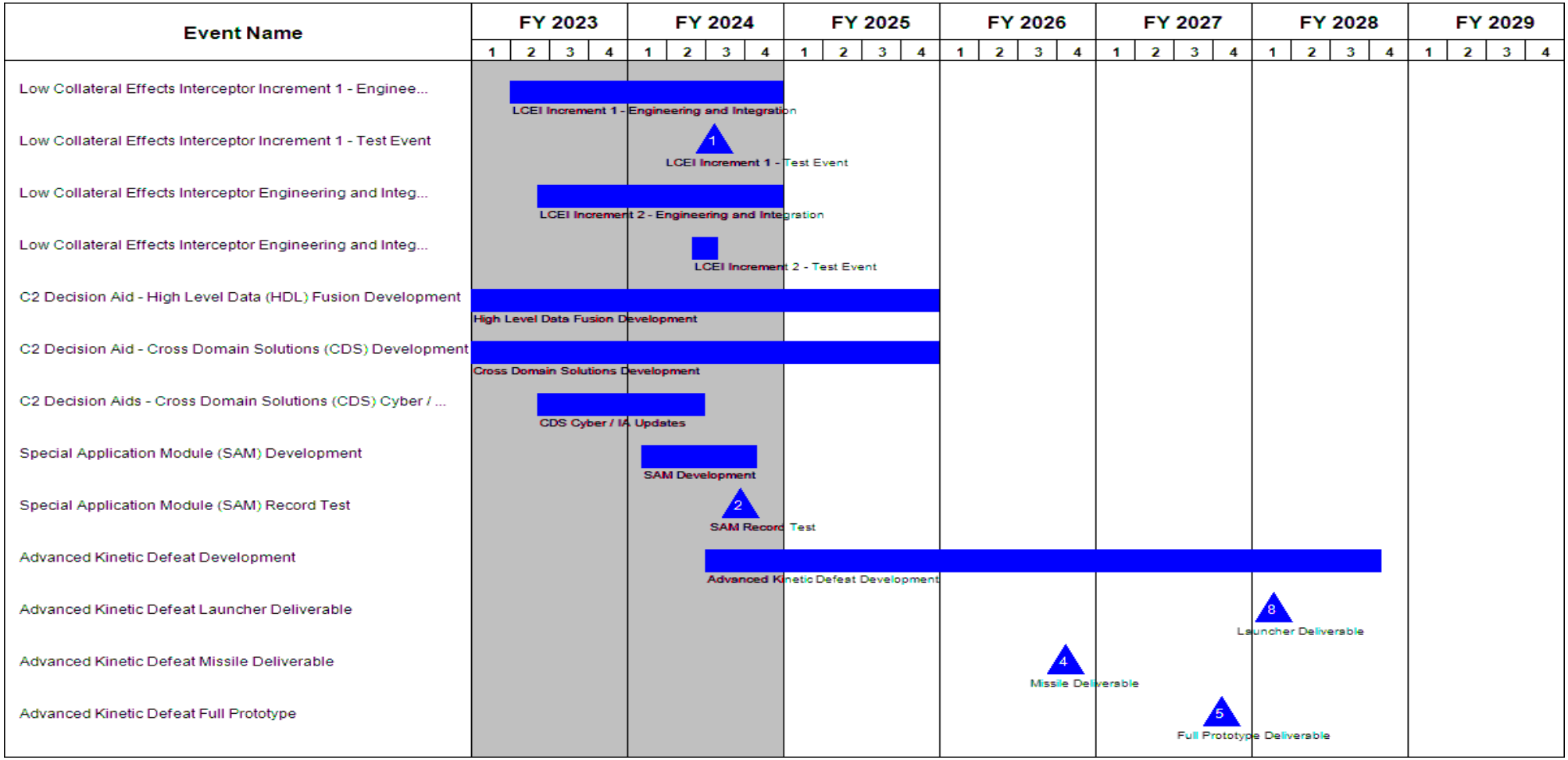


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	**Project (Number/Name)** CQ7 / *C-sUAS Joint New Capabilities*

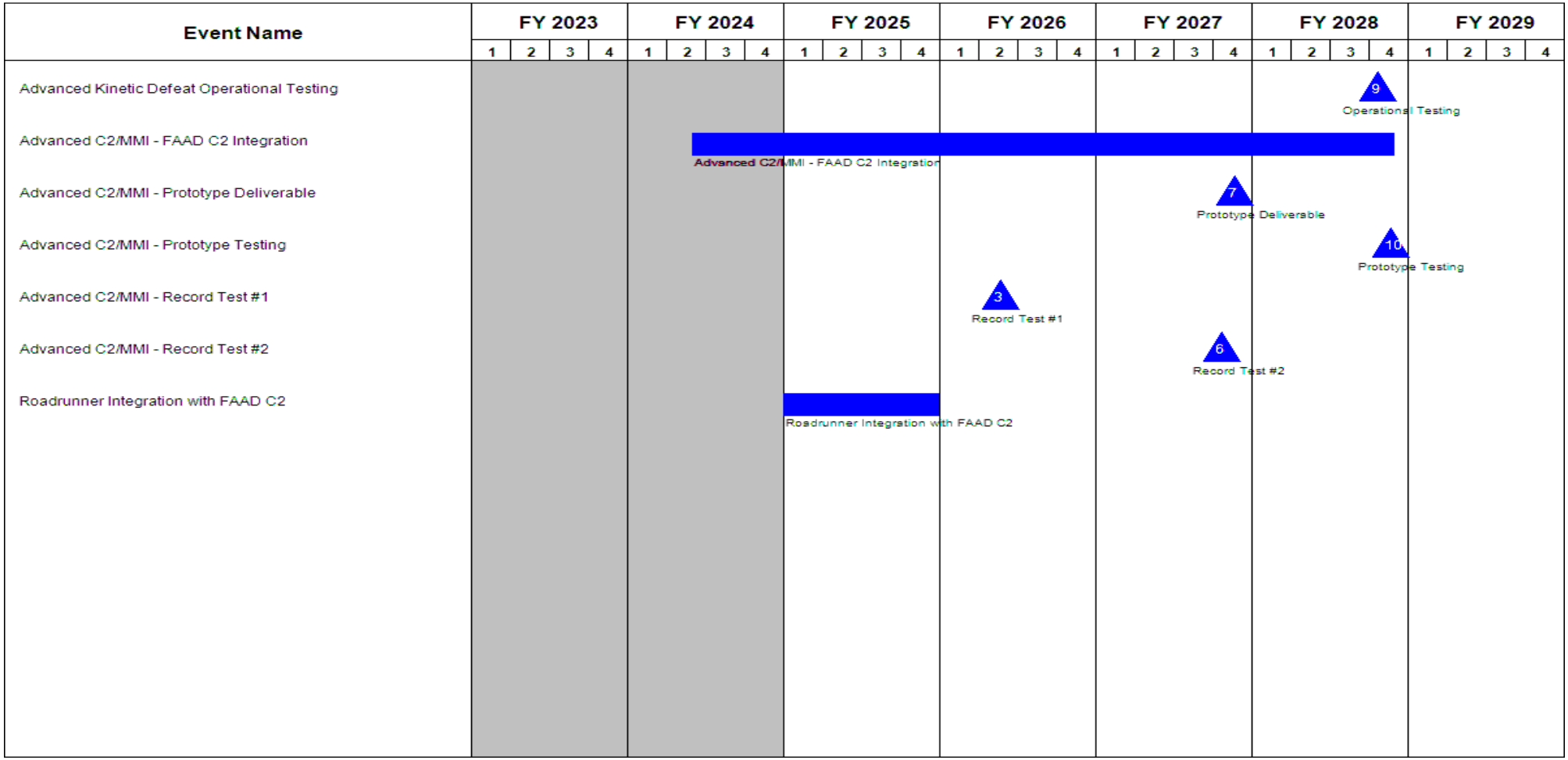


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	**Project (Number/Name)** CQ7 / *C-sUAS Joint New Capabilities*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Low Collateral Effects Interceptor Increment 1 - Engineering and Integration	1	2023	4	2024
Low Collateral Effects Interceptor Increment 1 - Test Event	3	2024	3	2024
Low Collateral Effects Interceptor Engineering and Integration Incerement 2- Engineering and Integration -	2	2023	4	2024
Low Collateral Effects Interceptor Engineering and Integration Incerement 2 - Test Event	2	2024	3	2024
C2 Decision Aid - High Level Data (HDL) Fusion Development	2	2022	4	2025
C2 Decision Aid - Cross Domain Solutions (CDS) Development	2	2022	4	2025
C2 Decision Aids - Cross Domain Solutions (CDS) Cyber / IA Updates	2	2023	2	2024
Special Application Module (SAM) Development	1	2024	4	2024
Special Application Module (SAM) Record Test	3	2024	3	2024
Advanced Kinetic Defeat Development	3	2024	4	2028
Advanced Kinetic Defeat Launcher Deliverable	1	2028	1	2028
Advanced Kinetic Defeat Missile Deliverable	4	2026	4	2026
Advanced Kinetic Defeat Full Prototype	4	2027	4	2027
Advanced Kinetic Defeat Operational Testing	4	2028	4	2028
Advanced C2/MMI - FAAD C2 Integration	2	2024	4	2028
Advanced C2/MMI - Prototype Deliverable	4	2027	4	2027
Advanced C2/MMI - Prototype Testing	4	2028	4	2028
Advanced C2/MMI - Record Test #1	2	2026	2	2026
Advanced C2/MMI - Record Test #2	4	2027	4	2027
Roadrunner Integration with FAAD C2	1	2025	4	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 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	Project (Number/Name) CQ8 / *C-sUAS Joint Enabling Capabilities*	

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
CQ8: *C-sUAS Joint Enabling Capabilities*	-	2.829	5.665	6.333	-	6.333	5.330	5.330	5.330	5.330	0.000	36.147
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Counter- small Unmanned Aircraft Systems (C-sUAS) effort is in response to the Department of Defense's (DoD) response to the Joint Requirements Oversight Council Memorandum (JROC-M) to support identification, development, testing, evaluation, and integration of technologies to provide capability to defeat small Unmanned Aircraft System threats across the DoD. The C-sUAS efforts provide warfighters the ability to comprehensively detect, track, identify, and defeat enemy Group 1, 2 and 3 UAS platforms. The efforts will be joint development efforts to provide integrated solutions to meet the needs of the Military Services and DoD Agencies against emerging threats.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Common Data Repository Development	2.829	5.665	6.333
Description: Provide a joint multi-classification platforms to provide cross collaboration C-sUAS data and analytic eco-system for Class 1-3 small Unmanned Aircraft Systems. Data repositories will consume disparate data sources across the Department of Defense to include intelligence data, commercial data, and Military Service developed data to support acquisition and deployed C-sUAS systems. ***FY 2024 Plans:*** Continue the development of a Common Data Repository for emerging sUAS threats and C-sUAS requirements to support analytics. The data repository is in collaboration with intelligence organizations for sUAS threat characterization and signature development. VR Trainer, as part of the data repository architecture, provides virtual reality training resources to the Joint Warfighter by leveraging analytics supported by the Common Data Repository. ***FY 2025 Plans:*** Continue the development of a Common Data Repository for centralized management of emerging sUAS threat profiles and the recommended software-based detect, track, identify, and defeat techniques based on advanced analytics. Electro Optical/Infrared Imagery database provides an additional level of fidelity to improve threat profile analytics. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY2025 increase of $0.668 million supports build out of cloud service architecture for the common data repository and acceleration of system accreditation at a classified level.			
Accomplishments/Planned Programs Subtotals	2.829	5.665	6.333

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 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	**Project (Number/Name)** CQ8 / *C-sUAS Joint Enabling Capabilities*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The Joint C-sUAS enabling efforts will address the Joint Requirements Oversight Council Memorandum (JROCM) 058-23 and be approved by the Department of Defense C-sUAS Executive Agent (EA) Governance. The JCO will establish a Common Data Repository for all Military Services and DoD Agencies to access current and relevant data for future C-sUAS system development and support to currently fielded systems. The JCO will draw from the intelligence community, academia, commercial, and Military Service databases to ensure consistency in datasets. This will eliminate redundant efforts for systems specific threat databases for use by all the Military Services and DoD Agencies. The Army Rapid Capabilities and Critical Technology Office (RCCTO) will provide acquisition support to the JCO to execute these 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 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	Project (Number/Name) CQ8 / *C-sUAS Joint Enabling Capabilities*	

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
Common Data Repository Development	TBD	Various : Various	2.792	1.200		2.295		2.556		-		2.556	Continuing	Continuing	Continuing
Electro Optical / Infrared Imagery Database	TBD	Various : Various	1.551	1.629		1.570		2.570		-		2.570	Continuing	Continuing	Continuing
Joint Virtual Reality Trainer	TBD	Various : Various	-	-		1.800		1.207		-		1.207	Continuing	Continuing	Continuing
		Subtotal	4.343	2.829		5.665		6.333		-		6.333	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
Intelligence Community Database Linkages	TBD	Various : Various	1.137	-		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	1.137	-		-		-		-		-	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	5.480	2.829		5.665		6.333		-		6.333	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 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	**Project (Number/Name)** CQ8 / *C-sUAS Joint Enabling Capabilities*

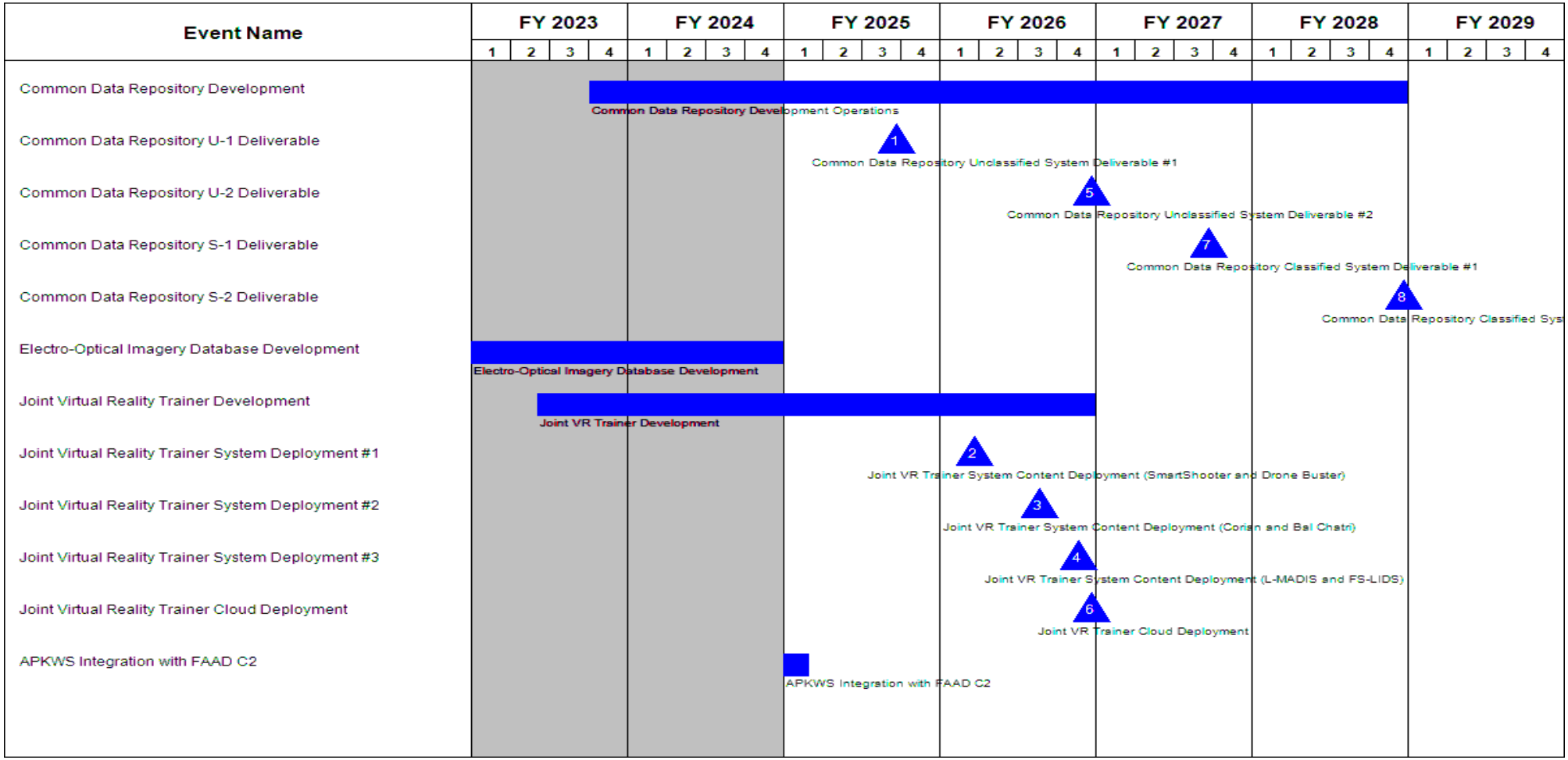


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605531A / *Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration*	**Project (Number/Name)** CQ8 / *C-sUAS Joint Enabling Capabilities*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Common Data Repository Development	4	2023	4	2028
Common Data Repository U-1 Deliverable	3	2025	3	2025
Common Data Repository U-2 Deliverable	4	2026	4	2026
Common Data Repository S-1 Deliverable	3	2027	3	2027
Common Data Repository S-2 Deliverable	4	2028	4	2028
Electro-Optical Imagery Database Development	2	2022	4	2024
Joint Virtual Reality Trainer Development	2	2023	4	2026
Joint Virtual Reality Trainer System Deployment #1	1	2026	1	2026
Joint Virtual Reality Trainer System Deployment #2	3	2026	3	2026
Joint Virtual Reality Trainer System Deployment #3	4	2026	4	2026
Joint Virtual Reality Trainer Cloud Deployment	4	2026	4	2026
APKWS Integration with FAAD C2	1	2025	1	2025

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 0605625A / *Manned Ground Vehicle*							
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	-	519.131	996.653	504.841	-	504.841	363.092	366.931	364.919	368.567	0.000	3,484.134
CF6: *Optionally Manned Fighting Vehicle (OMFV)*	-	519.131	996.653	504.841	-	504.841	363.092	366.931	364.919	368.567	0.000	3,484.134

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Next Generation Combat Vehicle Army Modernization Priority. The XM30 Combat Vehicle (previously OMFV), as part of an Armored Brigade Combat Team (ABCT), will replace the Bradley Infantry Fighting Vehicle to provide the capabilities required to defeat a future near-peer competitor's force. The XM30 is an optionally manned platform that maneuvers Soldiers to a point of positional advantage to engage in close combat and deliver decisive lethality during the execution of combined arms maneuver. It is designed to operate with and may operate without a crew and Soldiers under armor based on the commander's decision. It delivers decisive lethality during the execution of combined arms maneuver while also controlling maneuver robotics and semi-autonomous systems. The platform will be optimized for Life Cycle Environmental Profiles, both natural and induced, to remain safe, suitable and effective and with significantly reduced logistical burdens. The rapidly changing character of warfare and pace of technology motivates the Army to change how it will deliver, operate and sustain the XM30. As part of an ABCT, the XM30 will not fight alone, but rather as part of a section, platoon, and company of mechanized infantry. These companies will execute cross-domain maneuver and defeat pacing threats in the close area while maneuvering Soldiers to tactical objectives. Once the unit has transitioned to an integrated mounted and dismounted fight, the XM30 supports our Soldiers with advanced sensors, lethality, protection, and mission command.

The total cost of the XM30 Middle Tier of Acquisition effort is $1,330 million RDT&E from FY2021 to FY2024.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	554.925	996.653	542.476	-	542.476
Current President's Budget	519.131	996.653	504.841	-	504.841
Total Adjustments	-35.794	0.000	-37.635	-	-37.635
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-15.539	-			
• SBIR/STTR Transfer	-20.255	-			
• Adjustments to Budget Years	-	-	-37.635	-	-37.635

Change Summary Explanation

FY25 funding change aligns program budget with current forecasted strategy. The decrease is due to vendor reductions in Product 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 0605625A / *Manned Ground Vehicle*	Project (Number/Name) CF6 / *Optionally Manned Fighting Vehicle (OMFV)*	

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
CF6: *Optionally Manned Fighting Vehicle (OMFV)*	-	519.131	996.653	504.841	-	504.841	363.092	366.931	364.919	368.567	0.000	3,484.134
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Next Generation Combat Vehicle Army Modernization Priority. The XM30 Combat Vehicle (previously OMFV), as part of an Armored Brigade Combat Team (ABCT), will replace the Bradley Infantry Fighting Vehicle to provide the capabilities required to defeat a future near-peer competitor's force. The XM30 is an optionally manned platform that maneuvers Soldiers to a point of positional advantage to engage in close combat and deliver decisive lethality during the execution of combined arms maneuver. It is designed to operate with and may operate without a crew and Soldiers under armor based on the commander's decision. It delivers decisive lethality during the execution of combined arms maneuver while also controlling maneuver robotics and semi-autonomous systems. The platform will be optimized for Life Cycle Environmental Profiles, both natural and induced, to remain safe, suitable and effective and with significantly reduced logistical burdens. The rapidly changing character of warfare and pace of technology motivates the Army to change how it will deliver, operate and sustain the XM30. As part of an ABCT, the XM30 will not fight alone, but rather as part of a section, platoon, and company of mechanized infantry. These companies will execute cross-domain maneuver and defeat pacing threats in the close area while maneuvering Soldiers to tactical objectives. Once the unit has transitioned to an integrated mounted and dismounted fight, the XM30 supports our Soldiers with advanced sensors, lethality, protection, and mission command.

The total cost of the XM30 Middle Tier of Acquisition effort is $1,330 million RDT&E from FY2021 to FY2024.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Government Engineering & Program Management	36.807	29.549	40.276
Description: Provides Government System Engineering and Program Management support. Funding will cover the costs of government and direct support contractor labor, travel, training, supplies, equipment and facilities to effectively manage Project Management Office, XM30 Combat Vehicle (PM XM30). ***FY 2024 Plans:*** Provides Government System Engineering & Program Management Support and funds the efforts to the management support requirements pre and post award of Detailed Design contracts for up to 3 vendors. These costs reflect the RDTE funded costs for Matrix support within the program management office and includes the use of SETA support in critical areas of the design of an open-architected OMFV including cyber security, software development and system architecture. This funding will include the cost of government and direct support contractor labor, travel, training, supplies, equipment and facilities to effectively manage the PM MCS program. ***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 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Provides Government System Engineering & Program Management Support and funds the efforts to the management support requirements pre and post award of Detailed Design contracts for 2 vendors. These costs reflect the RDTE funded costs for Matrix support within the program management office and includes the use of SETA support in critical areas of the design of an open-architected XM30 including cyber security, software development and system architecture. This funding will include the cost of government and direct support contractor labor, travel, training, supplies, equipment and facilities to effectively manage the PM XM30 program. Continue consulting effort for Phase 5 RFP development and Milestone statutory compliance. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The increase from FY 2024 to FY 2025 in government engineering & program management is due to the program entering into Phase 3 and 4 Detailed design, Prototype development & Test.			
Title: Digital Engineering	18.102	22.164	24.558
Description: Digital Engineering provides the entire digital engineering ecosystem - which includes a cloud-based Digital Engineering (DE) environment and a government owned software development, Artificial Intelligence, and machine learning environment using a Development/Security/Operations (DevSecOps) software and Digital Twin technology development approach. ***FY 2024 Plans:*** Provides the entire digital engineering ecosystem - which includes a cloud-based Digital Engineering (DE) environment and a government owned software development, Artificial Intelligence, and machine learning environment using a Development/Security/Operations (DevSecOps) software and Digital Twin technology development approach. Cost includes further scaling up licenses, capacity, and support commensurate with the growth of MS&A, Architecture, and Test Evaluation teams. DE costs include the software (SW) licenses for the required Product Lifecycle Management (PLM) software, Models Based Systems Engineering (MBSE) SysML modeling tools, and logistics and modeling and simulation software. DevSecOps costs include 3 OEMs developing software in a government furnished cloud environment - which are based on the licenses and pipelines required for the oversight and development of OMFV Software using an agile DevSecOps software approach. Integration costs include the creation of Automatic Program Interfaces (API) between the PLM software and various government owned and commercial off the shelf modeling and simulation tools to accelerate the pace of analysis of up to 3 vendors for Phase 3. Integration of these tools within the DE environment enables frequent, continuous, and iterative assessment of a contractor's digital design with a view towards identifying and addressing technical risk as early and cost effectively as possible. ***FY 2025 Plans:*** Provides the entire digital engineering ecosystem - which includes a cloud-based Digital Engineering (DE) environment and a government owned software development, Artificial Intelligence, and machine learning environment using a Development/Security/Operations (DevSecOps) software and Digital Twin technology development approach. Cost includes further scaling			

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 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
up licenses, capacity, and support commensurate with the growth of MS&A, Architecture, and Test Evaluation teams. DE costs include the software (SW) licenses for the required Product Lifecycle Management (PLM) software, Models Based Systems Engineering (MBSE) SysML modeling tools, and logistics and modeling and simulation software. DevSecOps costs include 2 vendors developing software in a government furnished cloud environment - which are based on the licenses and pipelines required for the oversight and development of XM30 Software using an agile DevSecOps software approach. Integration costs include the creation of Automatic Program Interfaces (API) between the PLM software and various government owned and commercial. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The increase from FY 2024 to FY 2025 is due to the increase cost of software and licensing.			
Title: Product Development ***Description:*** Costs include the continuation of Concept Design efforts including System Functional Review (SFR) and development towards PDR. Contractor efforts include Development Engineering, Producibility Engineering and Planning, Development Tooling, System Engineering and Program Management, Data and Special Equipment. ***FY 2024 Plans:*** These costs include the maturation of OMFV Detailed Design Concepts to CDR. Costs include Contractor System Engineering and Program Management, Producibility Engineering and Planning, Development Tooling, Data, Support Equipment Development and Development of a Training Program of Instruction. Costs also include the material for 7 prototypes each from up to three vendors required for Preproduction Prove-Out Testing and initial logistics development. ***FY 2025 Plans:*** These costs include the maturation of XM30 Detailed Design Concepts to CDR. Costs include Contractor System Engineering and Program Management, Producibility Engineering and Planning, Development Tooling, Data, Support Equipment Development and Development of a Training Program of Instruction. Costs also include the material for 7 prototypes each from 2 vendors required for Preproduction Prove-Out Testing and initial logistics development. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease from FY 2024 to FY 2025 is due to the decrease in the number of vendors in Phase 3/4.	331.599	858.300	373.721
Title: Modeling Simulation & Analysis ***Description:*** Government Modeling,Simulation and Analysis in support of requirements analysis and concept refinement. ***FY 2024 Plans:***	15.732	9.788	3.924

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 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
This effort funds the continued Modeling, Simulation & Analysis (MS&A) and Subsystem Testing of awarded Contractor Designs and their respective components in support of CDR. This funding also supports government MS&A analysis of vendor designs in support of the final Capability Development Document (CDD), which includes conduct and analysis of Virtual Experimentation (VE), Crew Buck, CAVE, ARIES Physics Modeling, and Soldier Touchpoints in FY24. This funding also will continue to support the verification, validation, and accreditation of new models during product development. ***FY 2025 Plans:*** This effort funds the continued Modeling, Simulation & Analysis (MS&A) and Subsystem Testing of awarded Contractor Designs and their respective components in support of CDR. This includes the analysis of Virtual Experimentation (VE), Crew Buck, CAVE, and ARIES Physics Modeling. This funding also will continue to support the verification, validation, and accreditation of new models during product development. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease from FY 2024 to FY 2025 is due to the decrease in the amount of modeling that is required during this phase of the program.			
Title: Government Architecture ***Description:*** Develop the USG baseline architecture by enhancing PEO GCS Common Infrastructure Architecture (GCIA) based on Modular Open Systems Approach (MOSA) to guide the XM30 system development. The effort is directed by the Army Acquisition Executive to achieve transformational capabilities for XM30 via Modular, Open and Scalable Architecture, and by using applicable open standards. The effort will be executed by PEO GCS, PM XM30, and ASA (ALT)'s Office of the Chief Systems Engineer (DASA-DES) team's cohort with applicable CCDC and ARL teams, and industry consortium. ***FY 2024 Plans:*** This effort funds the continued maturation of the GCS Common Infrastructure Architecture (GCIA), Ground Vehicle Architecture Integration Laboratory (GVAIL), data architecture (model libraries, data dictionary) and the continued refinement and maturation of open architecture standards. The GCIA is a standardized architecture framework to enable persistent modernization for Optionally Manned Fighting Vehicle (OMFV). The GCIA enables Modular Open Systems Approach (MOSA) for OMFV program office to acquire affordable modular systems at the pace of threats/technology. It consists of a set of architecture specifications, digital models, defined interfaces, standards, and data models. GVAIL is a set of hardware, software, and model-based environment to test GCIA compliance of the OMFV capabilities that vendors build. This funding will also further mature the digital model for speed and ease of implementation during development of the OMFV, including the development of a Hardware Integration Lab to quickly ensure that any future technology is compliant with the GCIA architecture, increasing future competition. ***FY 2025 Plans:***	11.602	9.289	4.048

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 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
This effort funds the continued maturation of the GCS Common Infrastructure Architecture (GCIA), Ground Vehicle Architecture Integration Laboratory (GVAIL), data architecture (model libraries, data dictionary) and the continued refinement and maturation of open architecture standards. The GCIA is a standardized architecture framework to enable persistent modernization for the XM30. The GCIA enables Modular Open Systems Approach (MOSA) for XM30 program office to acquire affordable modular systems at the pace of threats/technology. It consists of a set of architecture specifications, digital models, defined interfaces, standards, and data models. GVAIL is a set of hardware, software, and model-based environment to test GCIA compliance of the XM30 capabilities that vendors build. This funding will also further mature the digital model for speed and ease of implementation during development of the XM30, including the development of a Hardware Integration Lab to quickly ensure that any future technology is compliant with the GCIA architecture, increasing future competition. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease from FY 2024 to FY 2025 is due a decrease in the need of the effort.			
Title: Technology Maturation & Analysis ***Description:*** This funding is for risk reduction efforts to enhance test and develop tools for XM30 cybersecurity and program protection and includes cyber testing, subject matter experts, contracts and development. ***FY 2024 Plans:*** This effort funds efforts to enhance test and develop tools for OMFV cybersecurity and program protection. This will include funding for testing, subject matter experts, contracts and development. This effort funds the risk reduction efforts to enhance, test, and develop tools for OMFV cybersecurity and program protection, i.e., supply chain, program data, new technologies. This will include funding for cyber testing, subject matter experts, contracts and development. This effort also funds personnel and contractors to support integration, evaluation, and support for the 3GFLIR systems. This includes technical support and information exchange with vendors who are awarded a prototype contract. ***FY 2025 Plans:*** This effort funds the risk reduction efforts to enhance, test, and develop tools for XM30 (i.e., supply chain, program data, new technologies). This effort also funds personnel and contractors to support integration, evaluation, and support for the 3rd Gen FLIR systems. This includes technical support and information exchange with vendors who are awarded a prototype contract. Mature combat automation technologies to enhance two-man crew operational capabilities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The increase from FY 2024 to FY 2025 is due to an increase in the risk reduction efforts and SMEs for technical development and test efforts.	53.920	5.986	11.462
Title: System Test & Evaluation	-	34.843	35.103

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 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: System Test & Evaluation supports the XM30 Government Production Prove-out testing of XM30 designs for two vendors. ***FY 2024 Plans:*** This cost funds the initial planning and preparation for the OMFV Government Production Prove-out testing of OMFV designs for up to three vendors. Each vendor will build up to 11 prototypes for USG test purposes along with 2 Ballistic Hull and Turrets (BH&T). This cost funds long lead material items including armor coupons, GFM integration and test spares, lethality ammunition and threat ammunition for the testing of prototypes for up to three vendors. ***FY 2025 Plans:*** This cost continues to fund the efforts for the XM30 Government Production Prove-out testing (PPT) of XM30 designs for two vendors. Each vendor will build 7 prototypes for USG test purposes along with 2 Ballistic Hull and Turrets (BH&T). This cost funds long lead material items including armor coupons, GFM integration and test spares, lethality ammunition and threat ammunition for the testing of prototypes for two vendors. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease in cost from FY 2024 to FY2025 is due to a result of the decrease in the number of vendors, less long lead items necessary for PPT preparation.			
Title: Training Aids, Devices, Simulators & Simulation (TADSS) ***FY 2024 Plans:*** This effort funds the initial analysis and development of TADSS occurring after CDR. ***FY 2025 Plans:*** This effort funds the initial development, design, and integration of XM30 TADSS for two vendors supporting PPT. TADSS efforts begin before Critical Design Review (CDR). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The increase from FY 2024 to FY 2025 is due to the change in cost of the total effort.	-	0.983	1.096
Title: XM913 Maturation ***FY 2024 Plans:*** This effort funds the testing of the XM913 50mm cannon, which will support a safety release for vendors to include in their full system prototype. Testing will include weapon reliability, durability, safety, and environmental impacts such as extreme temperature and humidity. This funding will also include the purchase of ammunition for government use to conduct risk reduction	45.024	4.002	2.593

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 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
testing to support a successful system fielding. Government testing will be conducted in FY 2024 to support vendor integration and test in FY 2025. ***FY 2025 Plans:*** This effort funds the testing of the XM913 cannon, which will support a safety release for vendors to include in their full system prototype. Testing will include weapon reliability, durability, safety, and environmental impacts such as extreme temperature and humidity. This funding will also include the purchase of ammunition for government use to conduct risk reduction testing to support a successful subsystem fielding. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease in cost from FY 2024 to FY 2025 is due to a decrease in test activities.			
Title: Counter - Unmanned Aerial System / Counter - Anti Tank Guided Missile Demonstrator ***FY 2024 Plans:*** This effort funds the development and demonstration of using existing radar sub-systems to be dual purposed and utilized for Counter Unmanned Aerial System (C-UAS) and Counter Anti-Tank Guided Missile (C-ATGM) missions. This funding includes the integration and development costs of the software and the procurement of Government Off the Shelf (GOTS) hardware needed to design, build, integrate, and test the capability during FY 2024 and FY 2025. The final software will be integrated into the Fire Control software before Low-Rate Initial Production. ***FY 2025 Plans:*** This effort funds the development and demonstration of using existing radar sub-systems to be dual purposed and utilized for Counter Unmanned Aerial System (C-UAS) and Counter Anti-Tank Guided Missile (C-ATGM) missions. This funding includes the integration and development costs of the software and the procurement of Government Off the Shelf (GOTS) hardware needed to design, build, integrate, and test the capability. The final software will be integrated into the Fire Control software before Low-Rate Initial Production. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease in cost from FY 2024 to FY 2025 is due to this effort having lower costs to acquire GOTS hardware.	-	7.406	1.200
Title: Software Pathway ***FY 2024 Plans:*** This effort funds the execution of the embedded software (SW) pathway acquisition. Embedded SW Pathway program expected to be awarded in FY24, and this funding will support the development of software to enable 2-person crew operations, such as Aided Target Recognition, machine-aided driving, and crew and formation level reporting autonomy to reduce crew burden. These	6.345	9.006	3.240

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 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
capabilities will be awarded 1QFY24 and developed to a minimum viable capability release (MVCR) in support of the warfighter in FY 2025. ***FY 2025 Plans:*** This effort funds the execution of the embedded software (SW) pathway acquisition. This will support the development of software to enable 2-person crew operations, such as Aided Target Recognition, machine-aided driving, and crew and formation level reporting autonomy to reduce crew burden. The SWP can reduce logistics burden as required in the SWP CNS for vehicle health management. This also funds the minimum viable capability release (MVCR) in accordance with embedded SWP authorities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease in cost from FY 2024 to FY 2025 is due to a slight reduction in embedded software (SW) development and continued focus on the development of the minimum viable capability release (MVCR).			
Title: Active / Passive Electronic Warfare Integration ***FY 2024 Plans:*** This effort funds the development and integration of Commercial Off the Shelf (COTS) programmable antennas with either COTS or existing Program of Record (POR) electronic warfare (EW) active and passive capabilities. Costs include the development of SW and purchase of HW to demonstrate the ability of the system to be Multi Domain Operations (MDO) capable. This funding will demonstrate the feasibility of bringing EW capabilities to the tactical edge for an Armored Brigade Combat Team (ABCT). This effort will begin in 1QFY24 and continue thru FY 2024. ***FY 2025 Plans:*** This effort funds the development and integration of Commercial Off the Shelf (COTS) programmable antennas with either COTS or existing Program of Record (POR) electronic warfare (EW) active and passive capabilities. Costs include the development of SW and purchase of HW to demonstrate the ability of the system to be Multi Domain Operations (MDO) capable. This funding will demonstrate the feasibility of bringing EW capabilities to the tactical edge for an Armored Brigade Combat Team (ABCT). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The decrease in cost from FY 2024 to FY 2025 is due to this effort purchasing less hardware and the cost decreasing in the development of software.	-	5.337	1.500
Title: Cyber Security ***FY 2025 Plans:*** This effort funds efforts to enhance test and develop tools for XM30 cybersecurity and program protection (i.e. supply chain, program data, new technologies). This will include funding for testing, subject matter experts, contracts, and development. ***FY 2024 to FY 2025 Increase/Decrease Statement:***	-	-	2.120

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 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
The increase in cost from FY 2024 to FY 2025 is due to the breakout of cyber security costs from Technology Maturation & Analysis. This is not a new effort.			
Accomplishments/Planned Programs Subtotals	519.131	996.653	504.841

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The XM30 Combat Vehicle is a Middle Tier Acquisition - Rapid Prototyping Program and is designed to maneuver Soldiers in the Forward Operating Environment to a position of advantage to engage in close combat and deliver decisive lethality during the execution of combined arms maneuver. The XM30 must exceed current capabilities while overmatching similar threat class systems. It must be optimized for urban and rural terrain areas, while also defeating pacing threats, and be characterized by the ability to spiral in advanced technologies as they mature. The capabilities desired focus to improve lethality, protection, mobility, range, survivability.

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 0605625A / *Manned Ground Vehicle*	Project (Number/Name) CF6 / *Optionally Manned Fighting Vehicle (OMFV)*	

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
XM913 Maturation	MIPR	PM MAS : Picatinny, NJ	35.039	45.024	Nov 2023	4.002	Dec 2023	2.593	Dec 2024	-		2.593	0.000	86.658	-
Product Development	C/FFP	General Dynamics Land Systems & American Rheinmetall Vehicles : Sterling Heights, MI & Slidell, LA	299.453	331.599	Jun 2023	858.300	Sep 2024	373.721	Dec 2024	-		373.721	0.000	1,863.073	-
Government Architecture	MIPR	Ground Vehicle Systems Center (GVSC) & DEVCOM Analysis Center (DAC) : Detroit Arsenal, MI	10.601	11.602	Dec 2023	9.289	Apr 2024	4.048	Apr 2025	-		4.048	0.000	35.540	-
Technology Maturation & Analysis	TBD	TBD : TBD	-	53.920	Sep 2023	5.986	Feb 2024	11.462	Feb 2024	-		11.462	0.000	71.368	-
Digital Engineering	TBD	TBD : TBD	-	18.102	May 2023	22.164	Jan 2024	24.558	Jan 2025	-		24.558	0.000	64.824	-
Training Aids, Devices, Simulators & Simulation (TADSS)	MIPR	PEO STRI : Orlando, FL	-	-		0.983	Dec 2023	1.096	Jun 2025	-		1.096	0.000	2.079	-
Counter - Unmanned Aerial System / Counter - Anti Tank Guided Missile	TBD	TBD : TBD	-	-		7.406	Mar 2024	1.200	Mar 2025	-		1.200	0.000	8.606	-
Software Pathway	TBD	TBD : TBD	-	6.345	Jan 2024	9.006	Jun 2024	3.240	Jun 2025	-		3.240	0.000	18.591	-
Active / Passive EW Integration	TBD	TBD : TBD	-	-		5.337	Mar 2024	1.500	Jun 2025	-		1.500	0.000	6.837	-
Cyber Security	TBD	TBD : TBD	-	-		-		2.120	May 2025	-		2.120	0.000	2.120	-
		Subtotal	345.093	466.592		922.473		425.538		-		425.538	0.000	2,159.696	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 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

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
Government Engineering & Program Management	MIPR	Warren, MI : TBD	38.844	36.807	Jun 2023	29.549	Mar 2024	40.276	Mar 2025	-		40.276	0.000	145.476	-
		Subtotal	38.844	36.807		29.549		40.276		-		40.276	0.000	145.476	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
Modeling Simulation & Analysis	TBD	TBD : TBD	9.646	15.732	Dec 2023	9.788	Mar 2024	3.924	Mar 2025	-		3.924	0.000	39.090	-
System Test & Evaluation	TBD	TBD : TBD	-	-		34.843	Mar 2024	35.103	Jun 2025	-		35.103	0.000	69.946	-
		Subtotal	9.646	15.732		44.631		39.027		-		39.027	0.000	109.036	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	393.583	519.131		996.653		504.841		-		504.841	0.000	2,414.208	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 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

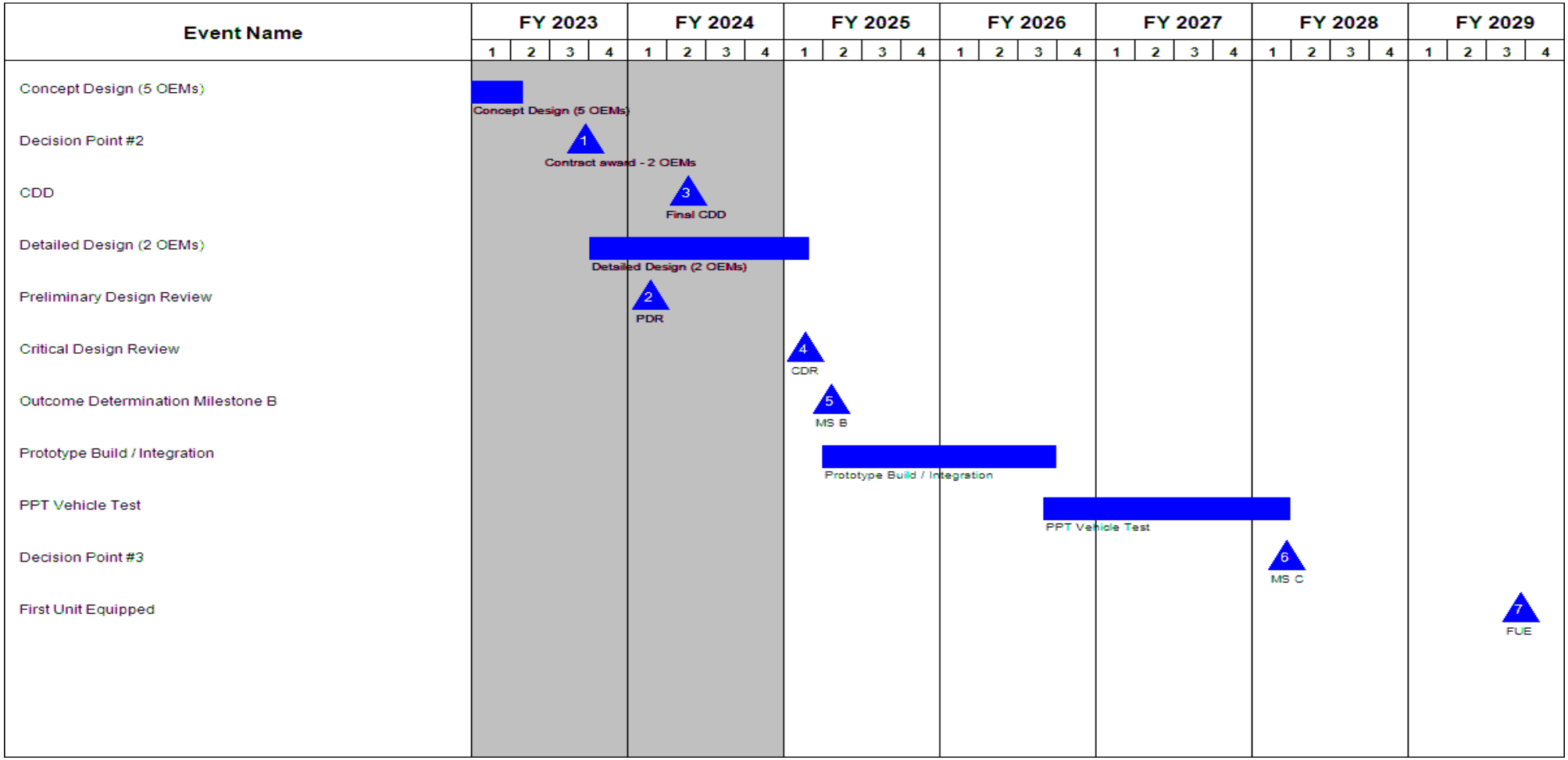


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605625A / *Manned Ground Vehicle*	**Project (Number/Name)** CF6 / *Optionally Manned Fighting Vehicle (OMFV)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Concept Design (5 OEMs)	4	2021	1	2023
A-CDD	2	2022	2	2022
Request for Proposal Release #2	4	2022	4	2022
Decision Point #2	3	2023	3	2023
CDD	2	2024	2	2024
Detailed Design (2 OEMs)	4	2023	1	2025
Preliminary Design Review	1	2024	1	2024
Critical Design Review	1	2025	1	2025
Outcome Determination Milestone B	2	2025	2	2025
Prototype Build / Integration	2	2025	3	2026
PPT Vehicle Test	3	2026	1	2028
Decision Point #3	1	2028	1	2028
First Unit Equipped	3	2029	3	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 0605766A / *National Capabilities Integration (MIP)*							
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	-	16.790	15.129	16.565	-	16.565	16.960	17.139	17.333	17.507	0.000	117.423
BV3: *Technical Intel Targeting Access Node (TITAN)*	-	7.057	5.146	6.650	-	6.650	6.840	6.913	6.992	7.062	0.000	46.660
DX9: *National Integration To Tactical Systems*	-	3.197	3.187	3.140	-	3.140	3.337	3.371	3.410	3.444	0.000	23.086
EX7: *Air Vigilance System Development*	-	6.536	6.796	6.775	-	6.775	6.783	6.855	6.931	7.001	0.000	47.677

A. Mission Description and Budget Item Justification

Tactical Exploitation of National Capabilities (TENCAP) exploits national capabilities to pace evolving threats in support of operations during conflict and competition. TENCAP systems and technologies provide deep sensing to support commanders' situational understanding (patterns of life, threat intentions, etc.), indications & warnings (detection of enemy mobilization and hostile activity), and intelligence support to targeting (order of battle, electronic target folders, target detection, Battle Damage Assessment, etc.). TENCAP systems and technologies support Theater-level fires and effects, TENCAP systems enable integrated Signals Intelligence (SIGINT) / Electronic Warfare (EW) / and Cyberspace operations. TENCAP supports Army modernization priorities including Long Range Precision Fires, Assured Position Navigation and Timing/Space (PNT/S), Future Vertical Lift (FVL), and Air Missile Defense (AMD). In summary, TENCAP is a key enabler to defeating peer competitor Anti-Access / Area-Denial (A2/AD) strategies.

This Program Element includes three separate projects described below.
1. Tactical Intelligence Targeting Access Node (TITAN) (BV3) - This project includes funding for system integration and testing of the TITAN (space) Pre-Prototype that will provide Army units with assured access to space-based Intelligence, Surveillance, and Reconnaissance (ISR) sensor data from Commercial and National levels. The follow-on effort to the TITAN (space) Pre-Prototype is testing and integration of the Space Ground Component Kit (SGCK) into the TITAN Program of Record. The SGCK consists of antennas, other RF components, and other capabilities developed as part of the TITAN (space) Pre-Prototype effort.
2. National Integration to Tactical Systems (DX9) - This project enables the Army's Tactical Exploitation of National Capabilities (TENCAP) office to monitor, synchronize, and transition proven, advanced technologies, prototypes and standards, developed by the National Intelligence Community (IC), into Army tactical systems and Programs of Record during the most cost-effective, early stages of development.
3. Air Vigilance (AV) Program of Record (POR) (EX7) - This project provides System Development and Integration funds for the classified POR.

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 0605766A *I National Capabilities Integration (MIP)*		
B. Program Change Summary ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Previous President's Budget	17.030	15.129	16.953	-	16.953
Current President's Budget	16.790	15.129	16.565	-	16.565
Total Adjustments	-0.240	0.000	-0.388	-	-0.388
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.240	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.388	-	-0.388

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 0605766A / *National Capabilities Integration (MIP)*	Project (Number/Name) BV3 / *Technical Intel Targeting Access Node (TITAN)*	

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
BV3: *Technical Intel Targeting Access Node (TITAN)*	-	7.057	5.146	6.650	-	6.650	6.840	6.913	6.992	7.062	0.000	46.660
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

All funding is in support of the ACTIVE COMPONENT.

A. Mission Description and Budget Item Justification

The BV3 project demonstrates and integrates space-to-ground station capabilities in the TITAN Program of Record (POR) vehicles. The integration of these capabilities into the TITAN POR provides timely assured access to National and Commercial Space-Based Intelligence, Surveillance, and Reconnaissance (ISR) sensor data supporting Warfighting commanders' situational understanding (patterns of life, threat intentions, etc.), indications & warnings (detection of enemy mobilization and hostile activity), and intelligence support to targeting (order of battle, electronic target folders, target detection, Battle Damage Assessment, etc.).

FY2025 base dollars in the amount of $6.650 million funds integration and demonstration of TITAN (space) Pre-Prototype and integration of the Space Ground Component Kit (SGCK) into the TITAN POR after validation in the TITAN Integration Environment (TIE). Enables continued integration of prototype software and sensor-unique hardware into representative TITAN POR architecture to provide access to National and Commercial Space-based ISR. FY2025 base funds support continued development and integration of next generation commercial and national space SIGINT and GEOINT sub-systems. The SGCK will follow a Modular Open Systems Approach (MOSA) to support seamless integration of future space capability into the TITAN POR.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: BV3 / Tactical Intelligence Targeting Access Node (TITAN) Prototype System	7.057	5.146	6.650
Description: Development and delivery of Space Ground Component Kits (SGCKs) to the Tactical Intelligence Targeting Access Node (TITAN) (space) Pre-Prototypes Program of Record, integration of new sensor and analytic capabilities into TITAN Pre-Prototypes and SGCKs.			
FY 2024 Plans: Funds integration and demonstration of TITAN (space) Pre-Prototype and integration of the SGCK into the TITAN POR after validation in the TITAN Integration Environment (TIE). Enables continued integration of prototype software and sensor-unique hardware into representative TITAN POR architecture to provide access to National and Commercial Space-based ISR. FY2024 base funds support continued development and integration of next generation commercial and national space SIGINT 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 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** BV3 / *Technical Intel Targeting Access Node (TITAN)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
GEOINT sub-systems. The SGCK will follow a Modular Open Systems Approach (MOSA) to support seamless integration of future space capability into the TITAN POR. ***FY 2025 Plans:*** Base funds support continued development and integration of next generation commercial and national space SIGINT and GEOINT sub-systems, and funds for integration and demonstration of TITAN (space) Pre-Prototype after validation in the TITAN Integration Environment (TIE). Enables continued integration of prototype software and sensor-unique hardware into representative TITAN POR architecture to provide access to National and Commercial Space-based ISR. The SGCK will follow a Modular Open Systems Approach (MOSA) to support seamless integration of future space capability into the TITAN POR. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY24 to FY25 funding increase $1.491M is due to increased integration of SGCK into the TITAN Program of Record and $.013M due to inflation increase.			
Accomplishments/Planned Programs Subtotals	7.057	5.146	6.650

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
• 0603766A: *Tactical Electronic Surveillance System - Adv Dev*	72.364	65.567	90.265	-	90.265	63.649	48.625	53.954	49.333	Continuing	Continuing

Remarks

BV3 integration activities are conducted in concert with development activities funded by PE 0603766A BX9.

D. Acquisition Strategy

The TITAN (space) Pre-Prototype requirement was validated by the TENCAP General Officer Steering Group (TGOSG) in April 2019. In order to maximize agility and innovation in acquisition, TENCAP worked with the Defense Innovation Unit (DIU) to establish an Other Transaction Authority (OTA) agreement to develop the TITAN (space) Pre-Prototype and follow-on SGCK capabilities. The TITAN (space) Pre-Prototype provides a modernized, deployable, ground station capable of rapidly and semi-autonomously receiving, processing, exploiting, fusing, and disseminating space-based sensor data to provide improved situational awareness and direct tactical support to Army commanders at echelon. The TITAN (space) Pre-Prototype reduces S2S latency to allow timely intelligence support to the commander. The TITAN (space) Pre-prototype uses an agile software development approach, and maximizes non-proprietary / modular open system architectures (MOSA) to rapidly update and ingest data streams from emerging commercial vendors and national data sources. This OTA was preceded by Soldier touchpoints to inform this acquisition. Soldier engagement was used throughout the development and demonstration of the TITAN (space) Pre-Prototype. The capabilities successfully demonstrated in the TITAN (space) Pre-Prototype are being integrated into the TITAN POR through the SGCK.

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 0605766A / *National Capabilities Integration (MIP)*	Project (Number/Name) BV3 / *Technical Intel Targeting Access Node (TITAN)*	

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
TITAN (space) Prototype Engineering Services	C/CPFF	Strategic ACI : Alexandria, VA	0.329	0.385	Jan 2023	0.303	Jan 2024	0.219	Jan 2025	-		0.219	0.000	1.236	-
		Subtotal	0.329	0.385		0.303		0.219		-		0.219	0.000	1.236	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
TITAN (space) Pre-Prototype SGCK Integration	C/FFP	Northrup Grumman : Aurora, CA	4.500	5.742	Jan 2023	4.030	Feb 2024	5.775	Jan 2025	-		5.775	0.000	20.047	-
		Subtotal	4.500	5.742		4.030		5.775		-		5.775	0.000	20.047	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
TITAN (space) Pre-Prototype Development	Various	Army TENCAP : Alexandria, VA	0.500	0.500	Jan 2023	0.500	Feb 2024	0.555	Jan 2025	-		0.555	0.000	2.055	-
		Subtotal	0.500	0.500		0.500		0.555		-		0.555	0.000	2.055	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 Exercises for TITAN (space) Pre-Prototype Development	C/CPFF	Multiple : Multiple	0.400	0.430	Jan 2023	0.313	Jan 2024	0.101	Jan 2025	-		0.101	0.000	1.244	-
		Subtotal	0.400	0.430		0.313		0.101		-		0.101	0.000	1.244	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 0605766A / *National Capabilities Integration (MIP)*	Project (Number/Name) BV3 / *Technical Intel Targeting Access Node (TITAN)*	

	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	5.729	7.057		5.146		6.650		-		6.650	0.000	24.582	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 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** BV3 / *Technical Intel Targeting Access Node (TITAN)*

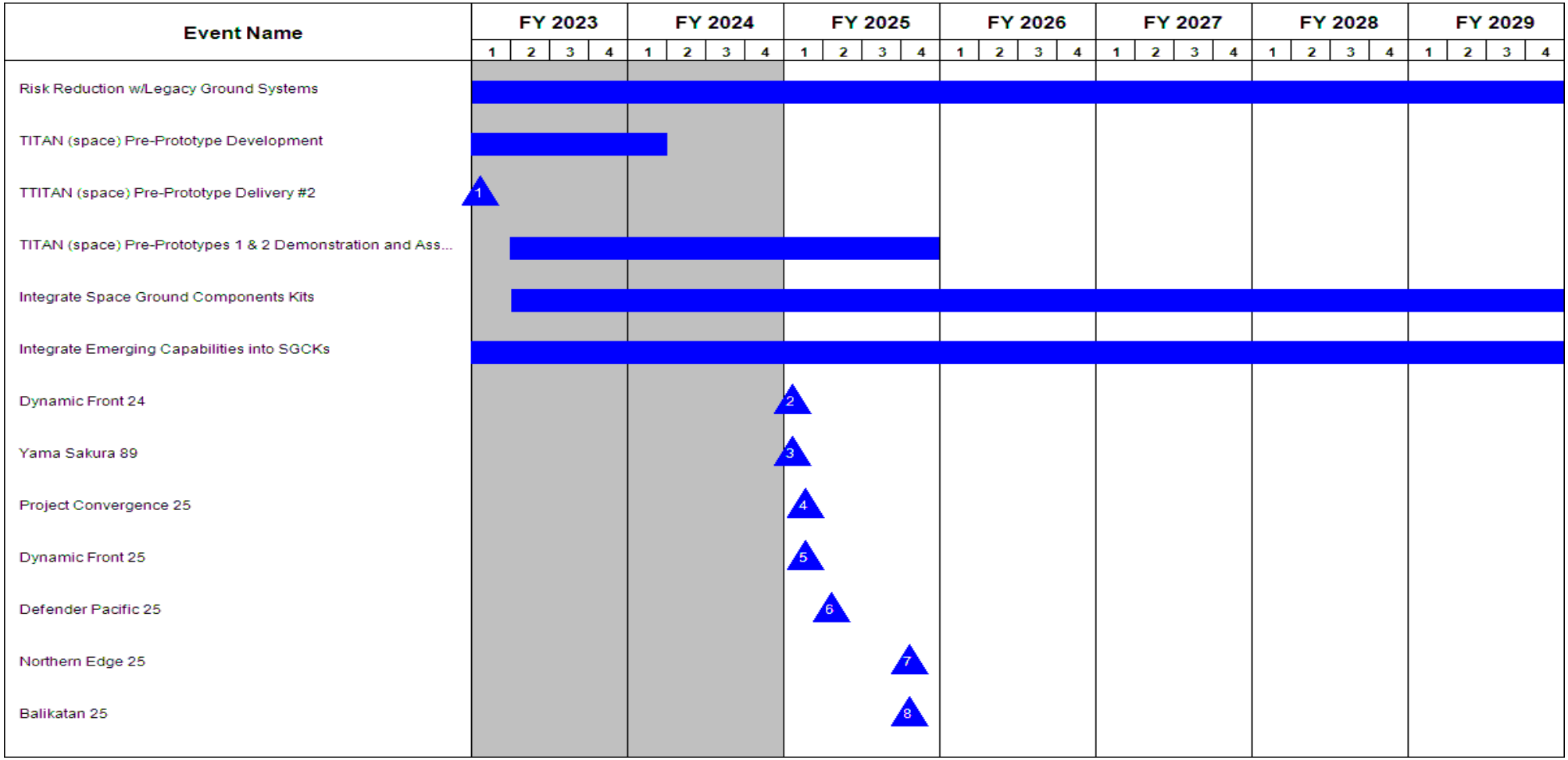


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** BV3 / *Technical Intel Targeting Access Node (TITAN)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Risk Reduction w/Legacy Ground Systems	1	2020	4	2029
TITAN (space) Pre-Prototype Development	4	2020	1	2024
TITAN (space) Pre-Prototype Factory Acceptance Test #1	3	2022	3	2022
TITAN (space) Pre-Prototype Factory Acceptance Test #2	4	2022	4	2022
TTITAN (space) Pre-Prototype Delivery #1	4	2022	4	2022
TTITAN (space) Pre-Prototype Delivery #2	1	2023	1	2023
TITAN (space) Pre-Prototypes 1 & 2 Demonstration and Assessment	1	2023	4	2025
Integrate Space Ground Components Kits	2	2023	4	2029
Integrate Emerging Capabilities into SGCKs	3	2022	4	2029
Dynamic Front 24	1	2025	1	2025
Yama Sakura 89	1	2025	1	2025
Project Convergence 25	1	2025	1	2025
Dynamic Front 25	1	2025	1	2025
Defender Pacific 25	2	2025	2	2025
Northern Edge 25	4	2025	4	2025
Balikatan 25	4	2025	4	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 0605766A / *National Capabilities Integration (MIP)*	Project (Number/Name) DX9 / *National Integration To Tactical 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
DX9: *National Integration To Tactical Systems*	-	3.197	3.187	3.140	-	3.140	3.337	3.371	3.410	3.444	0.000	23.086
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

All funding is in support of the ACTIVE COMPONENT.

A. Mission Description and Budget Item Justification

TENCAP exploits national capabilities to pace evolving threats in support of operations during conflict and competition. TENCAP systems and technologies provide deep sensing to support commanders' situational understanding (patterns of life, threat intentions, etc.), indications & warnings (detection of enemy mobilization and hostile activity), and intelligence support to targeting (order of battle, electronic target folders, target detection, Battle Damage Assessment, etc.). TENCAP systems and technologies support Theater-level fires and effects, TENCAP systems enable integrated Signals Intelligence (SIGINT) / Electronic Warfare (EW) / and Cyberspace operations. TENCAP supports Army modernization priorities including Long Range Precision Fires, Assured Position Navigation and Timing/Space (PNT/S), Future Vertical Lift (FVL), and Air Missile Defense (AMD). In summary, TENCAP is a key enabler to defeating peer competitor Anti-Access / Area-Denial (A2/AD) strategies.

Funding for this project allows the Army's Tactical Exploitation of National Capabilities (TENCAP) office to monitor, synchronize the transition, and integrate new, updated, and emerging National Intelligence Community (IC) technologies, capabilities, and standards into Army Programs of Record during early stages of development when costs are lowest. The project helps the Army to: (1) maintain operational relevance of Army programs and address changes in technology and the threat, (2) ensure Army programs maintain interoperability with and access to the National IC community architecture and systems as they evolve, and (3) advance the Army's ability to conduct analysis and tasking, collection, processing, exploitation, dissemination (TCPED) of intelligence data.

FY 2025 Base funding in the amount of $3.140 million provides integration of validated National IC capabilities and prioritized by the TENCAP General Officer Steering Group (TGOSG) into Army Programs of Record. The funded efforts include system development and integration of National sensors, architectures, and capabilities.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: National Integration to Tactical Systems	3.197	3.187	3.140
Description: National Integration provides for enhancements developed by Army TENCAP's BA 6.4 Project 907 along with the integration and transition of new, updated and emerging National Intelligence Community technologies and capabilities into Program of Records (POR)s. This effort develops and integrates national intelligence community software that informs, influences and enhances MULTI-INT sensor systems, by targeting modern digital communications systems employed by near-peer nation state armies.			
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 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** DX9 / *National Integration To Tactical Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Continue following the direction and priorities, established by the Tactical Exploitation of National Capabilities (TENCAP) General Officers' Steering Group (GOSG), to develop and integrate National asset capabilities into Army programs. FY2024 plans include Integrating the latest specialized capability advances and collected data into the open, government-owned software, and enabling Signal Intelligence (SIGINT), Electronic Warfare, and Cyber capabilities into Programs of Record (POR)s. ***FY 2025 Plans:*** Continue following the direction and priorities, established by the Tactical Exploitation of National Capabilities (TENCAP) General Officers' Steering Group (GOSG), to develop and integrate National asset capabilities into Army programs. FY2025 plans include Integrating the latest specialized capability advances and collected data into the open, government-owned software, and enabling Signal Intelligence (SIGINT), Electronic Warfare, and Cyber capabilities into Programs of Record (POR)s. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 level of effort anticipated to remain stable.			
Accomplishments/Planned Programs Subtotals	3.197	3.187	3.140

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
• 0603766A: *Tactical Electronic Surveillance System - Adv Dev*	72.364	65.567	90.265	-	90.265	63.649	48.625	53.954	49.333	Continuing	Continuing
• OMA - 122011 OMA: *Contractor Logistics Support and Other Weapon Support, OMA 122011*	-	-	-	-	-	-	-	-	-		
• OMA - 122021 OMA: *Contractor Logistics Support and Other Weapon, OMA 122021 Support*	11.842	11.640	11.725	-	11.725	11.775	11.866	12.022	12.142	Continuing	Continuing

Remarks

FY25 Base OMA funding provides support to Army TENCAP capabilities and programs.

D. Acquisition Strategy

The 'National Integration to Tactical Systems' funds provide for transition and integration of National IC advanced technologies and prototypes leveraged by the Army's TENCAP program office. The Army TENCAP acquisition strategy is driven by an annual TENCAP General Officer Steering Group (TGOSG). The TGOSG reviews, validates, prioritizes, and guides Army TENCAP efforts, according to the Army and Defense strategies. Based on this TGOSG guidance, Army TENCAP invests RDTE in Intelligence Community (IC) developments during the more cost-effective advanced development phase to ensure Army requirements are met with minimal redundancy

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 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** DX9 / *National Integration To Tactical Systems*

with Army investments. Army TENCAP then transitions these advanced development efforts through system development and integration into Army Programs of Record (POR). This strategy ensures these leveraged investments remain viable through multiple budget cycles, significantly increasing successful transition to recipient Army PORs. Army TENCAP facilitates the continued access to National IC 'joint' efforts and compatibility with those National standards and software baselines for those Army PORs that benefit from these leveraged National IC technologies. This results in cost savings through cost sharing, and Army participation in collaborative Intelligence. Funds will be used for integration efforts identified and vetted through the Army TENCAP annual TGOSG.

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 0605766A / *National Capabilities Integration (MIP)*	Project (Number/Name) DX9 / *National Integration To Tactical 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
National Integration Engineers	MIPR	Army Geospatial Center : Alexandria, VA 22304	0.120	0.150	Jan 2023	0.413	Feb 2024	-		-		-	0.000	0.683	Continuing
National Integration Engineers	C/CPFF	Sigma Defense : Alexandria, VA	-	-		-		0.353	Jan 2025	-		0.353	0.000	0.353	-
		Subtotal	0.120	0.150		0.413		0.353		-		0.353	0.000	1.036	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
TENCAP Radio Frequency Exploitation (TRFE)	MIPR	Classified : Classified	4.958	0.823	Jan 2023	-		-		-		-	0.000	5.781	Continuing
National Integration	MIPR	Multiple : Multiple	1.691	1.504	Jan 2023	2.134	Jan 2024	2.184	Jan 2025	-		2.184	0.000	7.513	-
		Subtotal	6.649	2.327		2.134		2.184		-		2.184	0.000	13.294	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
National Integration Program Management	C/CPFF	Intrepid : Alexandria, VA	0.373	0.360	Jan 2023	0.400	Feb 2024	0.343	Jan 2025	-		0.343	0.000	1.476	-
		Subtotal	0.373	0.360		0.400		0.343		-		0.343	0.000	1.476	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
TRFE	MIPR	Classified : Classified	0.394	0.180		-		-		-		-	0.000	0.574	Continuing
National Integration	C/CPFF	Intrepid : Alexandria, VA	0.150	0.180	Jan 2023	0.240	Jan 2024	0.260	Jan 2025	-		0.260	0.000	0.830	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 0605766A / *National Capabilities Integration (MIP)*	Project (Number/Name) DX9 / *National Integration To Tactical Systems*	

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	0.544	0.360		0.240		0.260		-		0.260	0.000	1.404	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	7.686	3.197		3.187		3.140		-		3.140	0.000	17.210	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 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** DX9 / *National Integration To Tactical Systems*

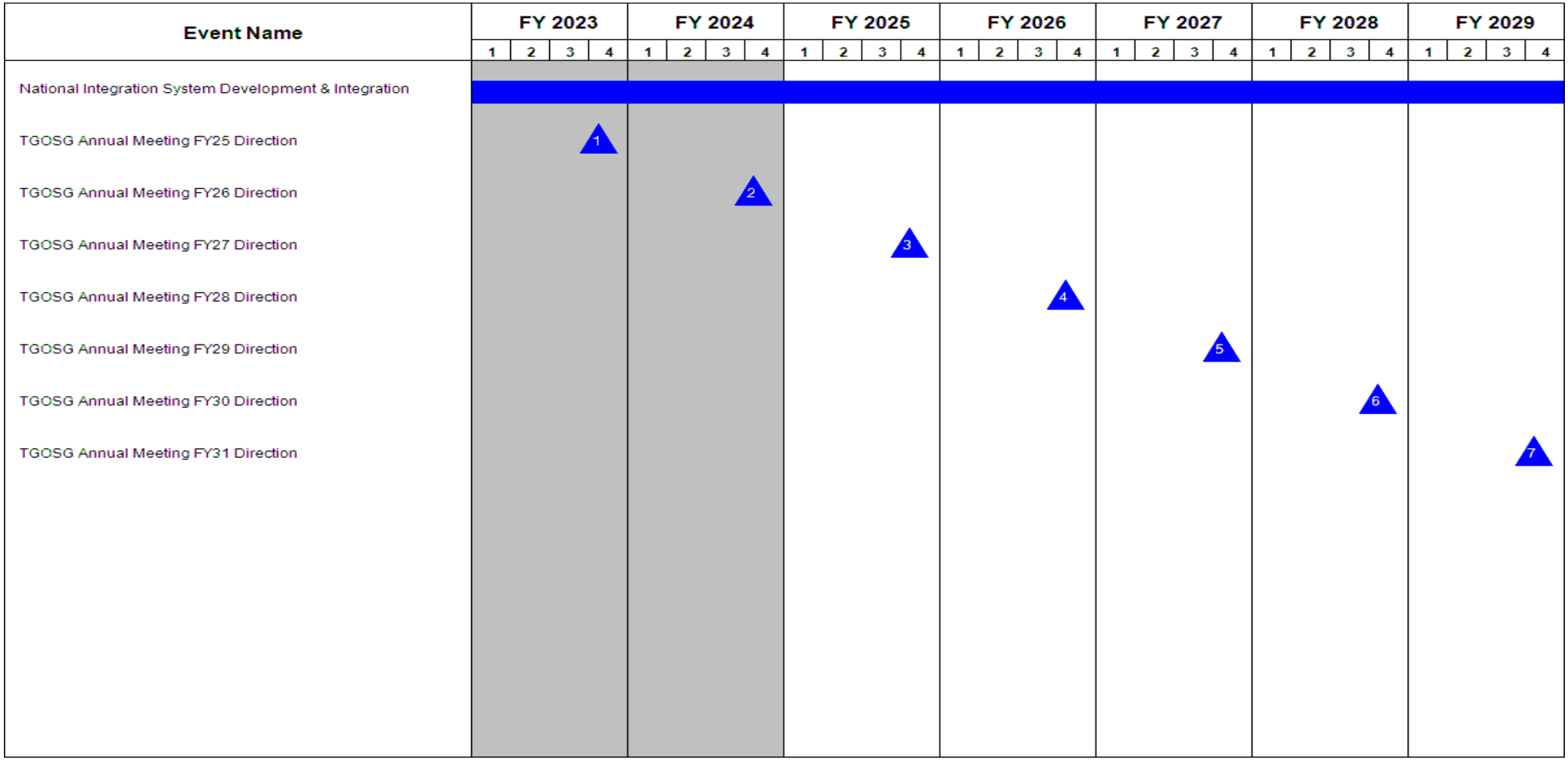


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** DX9 / *National Integration To Tactical Systems*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
National Integration System Development & Integration	1	2022	4	2029
TGOSG Annual Meeting FY24 Direction	4	2022	4	2022
TGOSG Annual Meeting FY25 Direction	4	2023	4	2023
TGOSG Annual Meeting FY26 Direction	4	2024	4	2024
TGOSG Annual Meeting FY27 Direction	4	2025	4	2025
TGOSG Annual Meeting FY28 Direction	4	2026	4	2026
TGOSG Annual Meeting FY29 Direction	4	2027	4	2027
TGOSG Annual Meeting FY30 Direction	4	2028	4	2028
TGOSG Annual Meeting FY31 Direction	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 0605766A / *National Capabilities Integration (MIP)*	Project (Number/Name) EX7 / *Air Vigilance System 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
EX7: *Air Vigilance System Development*	-	6.536	6.796	6.775	-	6.775	6.783	6.855	6.931	7.001	0.000	47.677
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

All funding is in support of the ACTIVE COMPONENT.

A. Mission Description and Budget Item Justification

Operational details are classified. The Air Vigilance system is a software-based capability that collects critical intelligence data on emerging threat aerial systems. The collected data provides early warning of enemy operations in restricted airspace to ensure force protection. An Air Vigilance system is comprised of a server unit configured and connected with either a single or multiple sensors.

FY2025 Base funding in the amount of $6.775 million provides for the development and integration of Pre-Planned Product Improvements (P3I) to meet and pace an evolving threat. The P3I consists of system development and integration of the latest software and hardware configurations to gain greater processing power, keep pace with emerging enemy changes, and ensure interoperability between System Capability Drops (CD). These funds also provide for continued development and integration of the CD 4 requirements into a proof-of-concept transportable system, and the development of central services in a classified cloud environment.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Air Vigilance System Development and Integration	6.536	6.796	6.775
Description: Software and hardware engineering, development and integration efforts.			
FY 2024 Plans: Continue development and integration of Pre-Planned Product Improvements (P3I) to meet and pace an evolving threat. The P3I consist of system development and integration of the latest software and hardware configurations to gain greater processing power, keep pace with emerging enemy changes, and ensure interoperability between System Capability Drops (CD). These funds also provide for continued development and integration of the CD 4 requirements into a proof-of-concept mobile variant. The original plan was to develop two proof-of-concept mobile variants, but to reduce costs, the program is developing only one mobile variant.			
FY 2025 Plans: Continue development and integration of Pre-Planned Product Improvements (P3I) to meet and pace an evolving threat. The P3I consists of system development and integration of the latest software and hardware configurations to gain greater processing power, keep pace with emerging enemy changes, and ensure interoperability between System Capability Drops (CD). These			

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 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** EX7 / *Air Vigilance System Development*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
funds also provide for continued development and integration of the CD 4 requirements into a proof-of-concept transportable variant, and the development of processing stack in a classified cloud environment. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 level of effort anticipated to remain stable.			
Accomplishments/Planned Programs Subtotals	6.536	6.796	6.775

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
• 0603766A: *Tactical Electronic Surveillance System - Adv Dev*	72.364	65.567	90.265	-	90.265	63.649	48.625	53.954	49.333	Continuing	Continuing
• W60001: *AIR VIGILANCE (AV)*	5.688	6.641	9.956	-	9.956	9.993	9.998	9.078	9.168	Continuing	Continuing

Remarks

The Air Vigilance product team leverages $30.106 million from line 0603766A to fund advanced software development.

D. Acquisition Strategy

Air Vigilance (AV) is an Acquisition Category (ACAT) III program of record (POR) that originated from a Quick Reaction Capability (QRC) developed and fielded cooperatively with the Intelligence Community (IC) through the efforts and mission of the Army's Tactical Exploitation of National Capabilities (TENCAP) office. The QRC was transitioned into an Army POR by the AAE in May 2013 and assigned to Army Program Executive Office - Intelligence Electronic Warfare and Sensors (PEO IEWS), the chartered acquisition authority for management and execution of the Army's TENCAP mission and Milestone Decision Authority (MDA) for the AV POR. The Army TENCAP continues to leverage the Mission Partner software development to keep pace with the threat by ingesting the latest sensor collects into the common Intelligence Community (IC) data library. The AV POR has fielded systems IAW the approved Basis of Issue Plan (BOIP) and with software and system capabilities that meet its latest validated Capability Drop (CD) requirements. The AV POR will continue to evolve meeting future validated Capability Drop requirements and maintaining its effectiveness against emerging threats.

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 0605766A / *National Capabilities Integration (MIP)*	Project (Number/Name) EX7 / *Air Vigilance System 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
System Engineers and Technical Assistance (SETA)	C/CPAF	TBD : Various	2.972	1.420	Mar 2023	1.412	Mar 2024	-		-		-	0.000	5.804	Continuing
		Subtotal	2.972	1.420		1.412		-		-		-	0.000	5.804	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
Air Vigilance software and hardware updates and integration	Option/ CPAF	TBD : Various	11.341	4.122	Mar 2023	4.342	Mar 2024	6.239	Mar 2025	-		6.239	0.000	26.044	Continuing
		Subtotal	11.341	4.122		4.342		6.239		-		6.239	0.000	26.044	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 Costs, Travel, Facilities	Allot	Army TENCAP : Alexandria, VA	4.060	0.814	Mar 2023	0.821	Mar 2024	0.136	Mar 2025	-		0.136	0.000	5.831	Continuing
		Subtotal	4.060	0.814		0.821		0.136		-		0.136	0.000	5.831	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
Air Vigilance System Testing and Exercises	Option/ CPAF	TBD : Various	0.694	0.180	Mar 2023	0.221	Mar 2024	0.400	Mar 2025	-		0.400	0.000	1.495	Continuing
		Subtotal	0.694	0.180		0.221		0.400		-		0.400	0.000	1.495	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 0605766A / *National Capabilities Integration (MIP)*	Project (Number/Name) EX7 / *Air Vigilance System Development*	

	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	19.067	6.536		6.796		6.775		-		6.775	0.000	39.174	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 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** EX7 / *Air Vigilance System Development*

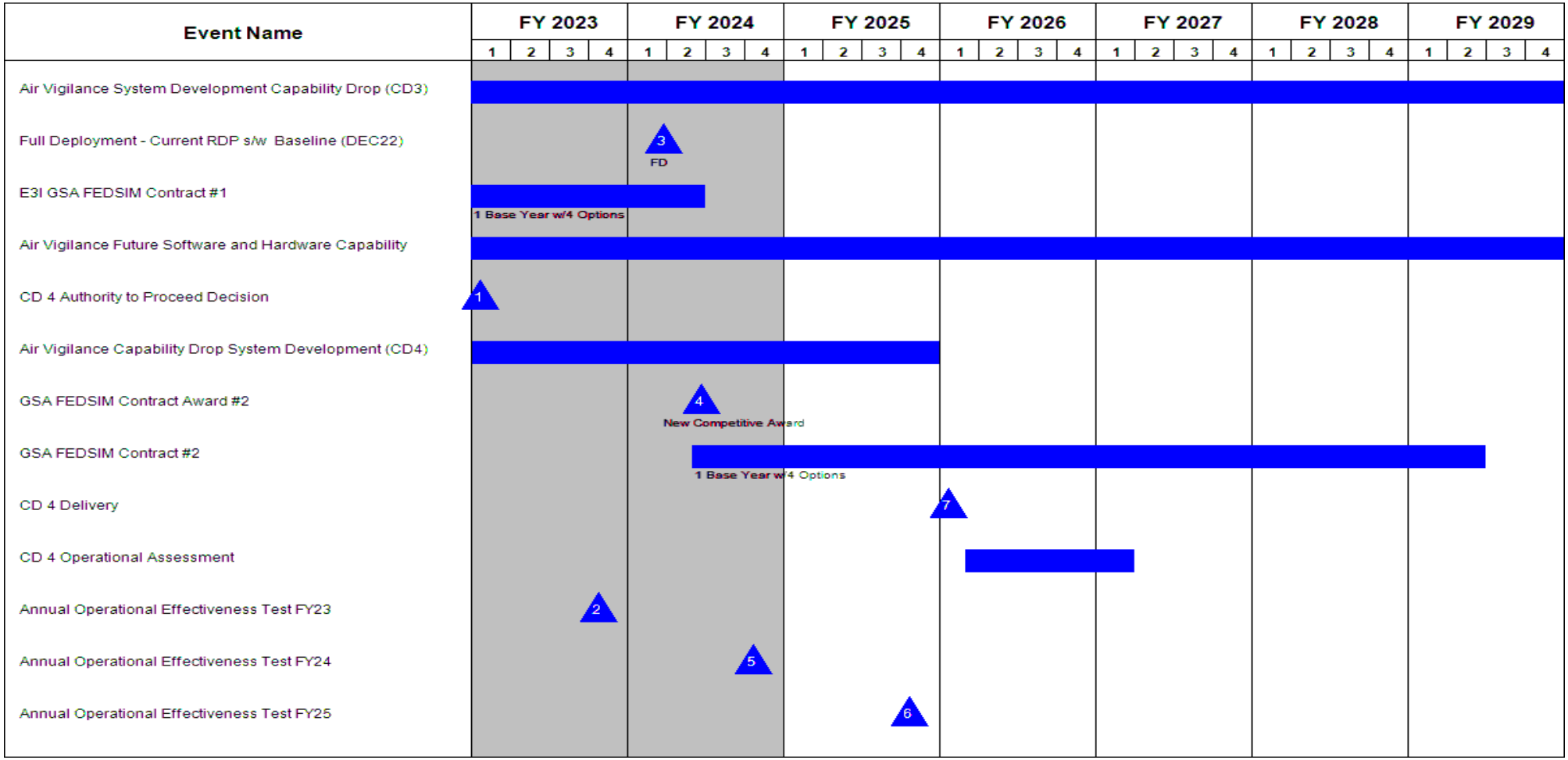


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** EX7 / *Air Vigilance System Development*

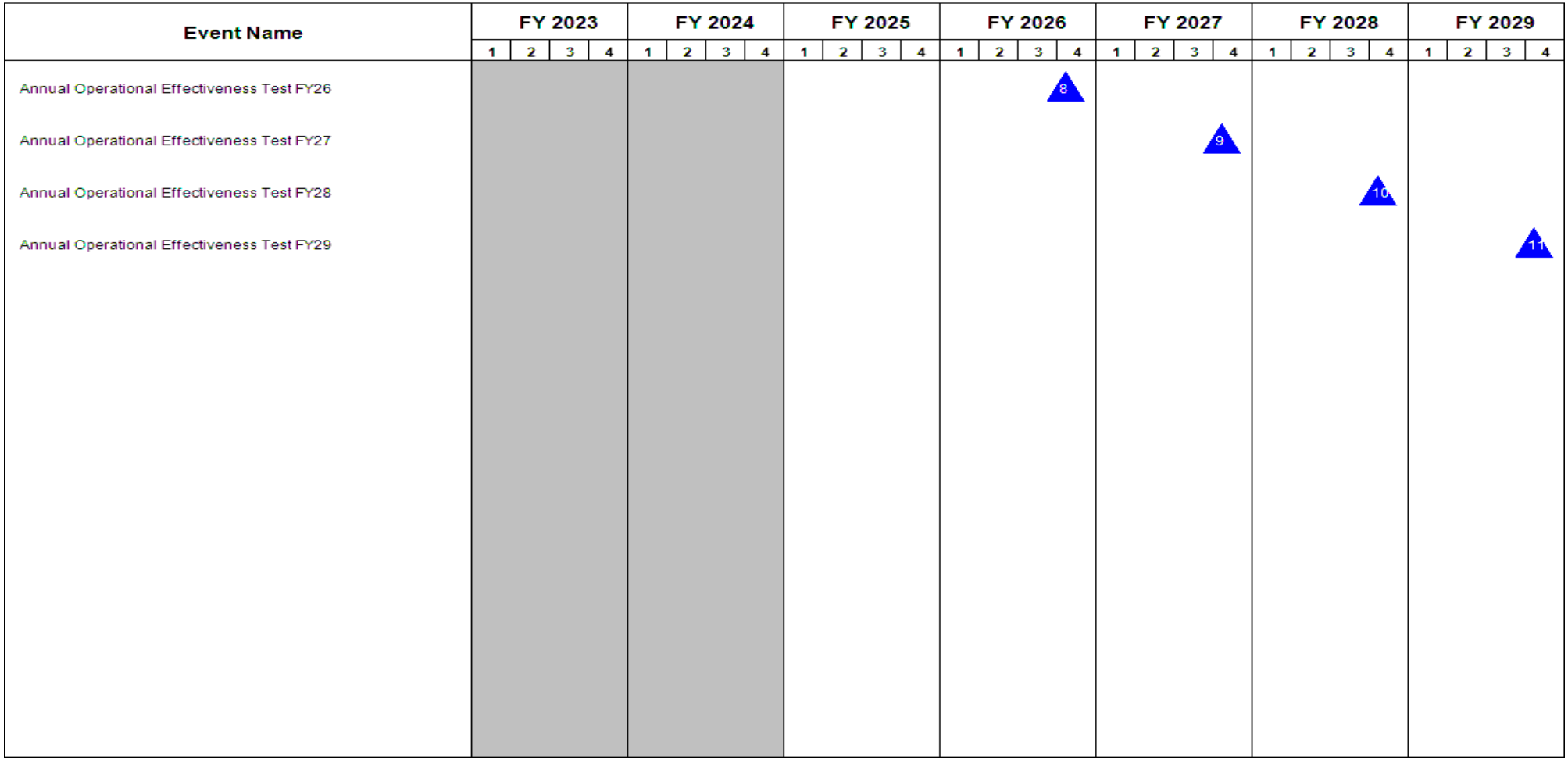


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605766A / *National Capabilities Integration (MIP)*	**Project (Number/Name)** EX7 / *Air Vigilance System Development*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Air Vigilance System Development Capability Drop (CD3)	2	2016	4	2029
Air Vigilance CD #3 National Assessment Group Test	3	2018	3	2018
Full Deployment - Current RDP s/w Baseline (DEC22)	1	2024	1	2024
TRFE GSA FEDSIM Bridge Contract	2	2018	3	2019
E3I GSA FEDSIM Contract #1 Contract Award	2	2019	2	2019
E3I GSA FEDSIM Contract #1	2	2019	2	2024
Air Vigilance Future Software and Hardware Capability	2	2022	4	2029
CD 4 Authority to Proceed Decision	1	2023	1	2023
Air Vigilance Capability Drop System Development (CD4)	1	2023	4	2025
GSA FEDSIM Contract Award #2	2	2024	2	2024
GSA FEDSIM Contract #2	2	2024	2	2029
CD 4 Delivery	1	2026	1	2026
CD 4 Operational Assessment	1	2026	1	2027
Annual Operational Effectiveness Test FY23	4	2023	4	2023
Annual Operational Effectiveness Test FY24	4	2024	4	2024
Annual Operational Effectiveness Test FY25	4	2025	4	2025
Annual Operational Effectiveness Test FY26	4	2026	4	2026
Annual Operational Effectiveness Test FY27	4	2027	4	2027
Annual Operational Effectiveness Test FY28	4	2028	4	2028
Annual Operational Effectiveness Test FY29	4	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 I* BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605812A *I Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (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	-	9.033	27.243	27.013	-	27.013	43.272	43.537	42.589	43.014	Continuing	Continuing
VU9: *Joint Light Tactical Vehicle*	-	9.033	27.243	27.013	-	27.013	43.272	43.537	42.589	43.014	Continuing	Continuing

A. Mission Description and Budget Item Justification

The JLTV Family of Vehicles (FoV), to include a companion trailer, is a United States Army (USA) acquisition lead, joint program with the U.S. Marine Corps (USMC). The JLTV is capable of performing multiple mission roles and designed to provide protected, sustained, networked mobility for personnel and payloads across the full range of military operations. JLTV objectives include increased protection and performance over the current fleet; and, minimizing ownership costs by maximizing commonality, fuel efficiency, reliability, and maintaining effective competition throughout the life cycle. Commonality of components, maintenance procedures, training, etc., among vehicles is expected to be inherent in FoV solutions across mission variants to minimize total ownership cost. Unique service requirements have been minimized. The JLTV Trailer (JLTV-T) is the companion trailer to the JLTV and safely carries its payload while maintaining the same mobility characteristics of the prime mover. The trailer requirement as defined in the Capability Production Document (CPD), dated 21 November 2014 was validated on 7 June 2019 by the Army and required the JLTV and JLTV-T to be fielded as a system. On November 2019, Army Futures Command validated the JLTV-T Army Procurement Objective (APO) of 18,224. The Follow-on JLTV Contract was awarded on 09 February 2023 as a single award five-year requirements contract with five one-year options.

This program element supports modernization of the JLTV FoV by investigating technology insertions including, but not limited to: predictive logistics, vetronics, Victory Architecture, autonomous operations and other emerging technologies. This program element also supports developing initial prototypes to enable refinement of Operational Requirements and early user feedback to support future sustainment and operational movement operating concepts.

The FY 2025 budget funds $27.013M for multiple efforts including $24.800M for the development and continuation of Hybrid Electric Vehicles (HEV) and Battery Electric Vehicles (BEV) that support Army Demand Reduction strategies to field purpose-built hybrid-drive tactical vehicles and mitigate a gap in Large-Scale Combat Operations to employ semi-independent maneuver in a Multi-Domain Operational (MDO) environment. A JLTV HEV/BEV will seek to improve and provide new capabilities such as silent mobility, extended silent watch, reduced fuel consumption, increased automotive performance, increased on-board vehicle power (Direct Current), available export power (Alternating Current), integrated charging, and potential Vehicle-To-Grid (V2G). Funding in the amount of $1.414M also supports the development and continuation of engineering efforts including 3PMSF winter tires, force protection enhancements, suspension enhancements, signature management mitigations and other emerging technologies. The continuation of Follow-on-Contract Live Fire Evaluation testing will be funded to $0.758M and Follow-On Test Contractor support will be funded to $0.041M.

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 0605812A *I Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)*		
B. Program Change Summary ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Previous President's Budget	9.376	27.243	26.959	-	26.959
Current President's Budget	9.033	27.243	27.013	-	27.013
Total Adjustments	-0.343	0.000	0.054	-	0.054
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.001	-			
• SBIR/STTR Transfer	-0.342	-			
• Adjustments to Budget Years	-	-	0.054	-	0.054

Change Summary Explanation

FY 2025 funding increase due to economic adjustment.

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 0605812A / *Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Deve lopment Phase (EMD)*	Project (Number/Name) VU9 / *Joint Light Tactical Vehicle*	

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
VU9: *Joint Light Tactical Vehicle*	-	9.033	27.243	27.013	-	27.013	43.272	43.537	42.589	43.014	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The JLTV Family of Vehicles (FoV), to include a companion trailer, is a United States Army (USA) acquisition lead, joint program with the U.S. Marine Corps (USMC). The JLTV is capable of performing multiple mission roles and designed to provide protected, sustained, networked mobility for personnel and payloads across the full range of military operations. JLTV objectives include increased protection and performance over the current fleet; and, minimizing ownership costs by maximizing commonality, fuel efficiency, reliability, and maintaining effective competition throughout the life cycle. Commonality of components, maintenance procedures, training, etc., among vehicles is expected to be inherent in FoV solutions across mission variants to minimize total ownership cost. Unique service requirements have been minimized. The JLTV Trailer (JLTV-T) is the companion trailer to the JLTV and safely carries its payload while maintaining the same mobility characteristics of the prime mover. The trailer requirement as defined in the Capability Production Document (CPD), dated 21 November 2014 was validated on 7 June 2019 by the Army and required the JLTV and JLTV-T to be fielded as a system. On November 2019, Army Futures Command validated the JLTV-T Army Procurement Objective (APO) of 18,224. The Follow-on JLTV Contract was awarded on 09 February 2023 as a single award five-year requirements contract with five one-year options.

This program element supports modernization of the JLTV FoV by investigating technology insertions including, but not limited to: predictive logistics, vetronics, Victory Architecture, autonomous operations and other emerging technologies. This program element also supports developing initial prototypes to enable refinement of Operational Requirements and early user feedback to support future sustainment and operational movement operating concepts.

The FY 2025 budget funds $27.013M for multiple efforts including $24.800M for the development and continuation of Hybrid Electric Vehicles (HEV) and Battery Electric Vehicles (BEV) that support Army Demand Reduction strategies to field purpose-built hybrid-drive tactical vehicles and mitigate a gap in Large-Scale Combat Operations to employ semi-independent maneuver in a Multi-Domain Operational (MDO) environment. A JLTV HEV/BEV will seek to improve and provide new capabilities such as silent mobility, extended silent watch, reduced fuel consumption, increased automotive performance, increased on-board vehicle power (Direct Current), available export power (Alternating Current), integrated charging, and potential Vehicle-To-Grid (V2G). Funding in the amount of $1.414M also supports the development and continuation of engineering efforts including 3PMSF winter tires, force protection enhancements, suspension enhancements, signature management mitigations and other emerging technologies. The continuation of Follow-on-Contract Live Fire Evaluation testing will be funded to $0.758M and Follow-On Test Contractor support will be funded to $0.041M.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Evaluation and assessment of current and future Climate Change initiatives	7.500	24.311	22.458
Description: Funding is provided for the support of JLTV evaluation and assessment of current and future Demand reduction 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 0605812A / *Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Deve lopment Phase (EMD)*	**Project (Number/Name)** VU9 / *Joint Light Tactical Vehicle*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: FY2024 JLTV Climate Change budget activities will finalize the design/test or JLTV A1 Anti-Idle kits and initiate the JLTV HEV/ BEV design, development and testing for prototype solutions. ***FY 2025 Plans:*** Continuation of JLTV HEV/BEV design, development and testing for prototype solutions. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease in funding from FY24 to FY25 due to completion of JLTV A1 Anti-Idle kits requirement in FY24.			
Title: JLTV - Hybrid Electric Vehicle (HEV) Support ***FY 2024 Plans:*** Support for the development of the Hybrid Electric Vehicle (HEV) program to include program management and monitoring of vendor performance. ***FY 2025 Plans:*** Support for the development of the Hybrid Electric Vehicle (HEV) program to include program management and monitoring of vendor performance. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase in funding from FY24 to FY25 due to ramp up from FY24 to full onboarding in FY25.	-	0.989	2.342
Title: Evaluation and Assessment of current and future engineering efforts ***Description:*** Funding is provided for the support of JLTV evaluation and assessment of current and future engineering efforts. ***FY 2024 Plans:*** Development and continuation of engineering efforts that include development of acoustic mitigation, occupant safety/survivability, JLTV and JLTV-T mission sets (e.g. - Assault Kitchen) and artic enhancements. ***FY 2025 Plans:*** Development and continuation of engineering efforts including 3PMSF winter tires, force protection enhancements, suspension enhancements, signature management mitigations, and other emerging technologies. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase in funding from FY24 to FY25 due to initiation of 3PMSF winter tires and suspension enhancements.	1.081	0.314	1.414
Title: Test Assets - Follow-on Contract (FOC)	0.452	-	-

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 0605812A / *Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Deve lopment Phase (EMD)*	**Project (Number/Name)** VU9 / *Joint Light Tactical Vehicle*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Description: Procurement of test assets - Follow-on Contract (FOC)			
Title: Live Fire Testing - Follow-on Contract (FOC) ***Description:*** Live Fire Testing - Follow-on Contract (FOC) ***FY 2024 Plans:*** Live Fire Testing - Follow-on Contract (FOC) ***FY 2025 Plans:*** Live Fire Testing - Follow-on Contract (FOC) ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase in funding from FY24 to FY25 due to increased scope for Live Fire Testing.	-	0.713	0.758
Title: Follow-on Contract (FOC) contractor support for Test Assets ***Description:*** Follow-on Contract (FOC) contractor support for Test Assets. ***FY 2024 Plans:*** Contractor FOC support. ***FY 2025 Plans:*** Contractor FOC support. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease in funding from FY24 to FY25 due to completion of primary contractor support testing requirements.	-	0.916	0.041
Accomplishments/Planned Programs Subtotals	9.033	27.243	27.013

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
• D15610: *JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICLES*	858.780	839.413	653.223	-	653.223	581.788	595.695	618.570	609.367	Continuing	Continuing
• D15615: *JOINT LIGHT TACTICAL VEHICLE (JLTV)*	788.894	786.946	623.117	-	623.117	569.906	582.561	607.783	589.356	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 0605812A / *Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Deve lopment Phase (EMD)*	**Project (Number/Name)** VU9 / *Joint Light Tactical Vehicle*

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
• D15618: *JOINT LIGHT TACTICAL VEHICLE TRAILER (JLTV-T)*	69.886	52.467	30.106	-	30.106	11.882	13.134	10.787	20.011	Continuing	Continuing
• D00929: *JOINT LIGHT TACTICAL VEHICLE (JTLV) MOD-IN-SERVICE*	8.084	8.055	27.565	-	27.565	47.483	66.875	66.938	67.609	Continuing	Continuing
• MC - 5095: *JOINT LIGHT TACTICAL VEHICLE (JLTV) - USMC*	436.708	232.500	340.542	-	340.542	168.526	499.510	509.460	520.169	Continuing	Continuing
• MC - 0605813M: *JOINT LIGHT TACTICAL VEHICLE (JLTV) - USMC*	2.713	2.609	10.748	-	10.748	8.132	2.810	2.368	2.418	Continuing	Continuing

Remarks

JLTV is a Joint Program with the United States Marine Corps (USMC)

D. Acquisition Strategy

The JLTV Family of Vehicles (FoV), to include a companion trailer, is a United States Army (USA) acquisition lead, joint program with the U.S. Marine Corps (USMC).

The JLTV Program entered the Production and Deployment Phase with the Acquisition Decision Memorandum authorization on 25 August 2015. With Milestone C approval, the Low Rate Initial Production (LRIP) fixed price contract was awarded to Oshkosh Defense LLC on 25 August 2015. This contract consisted of a three-year LRIP period with options for five additional years of Full Rate Production (FRP) deliveries. JPO JLTV procured the Technical Data Package (TDP) with appropriate data rights to allow for possible future competition for production vehicles and spares. The Follow-on JLTV Contract was awarded to AM General LLC on 09 February 2023 as a single award five-year requirements contract with five one-year options. AM General will produce the JLTV A2 configuration which incorporates technical enhancements identified by our Soldiers and the Marines. This includes improved noise reduction, storage space, power distribution systems, corrosion protection, and fuel efficiency. JLTV is working initiatives for demand reduction and mitigation of acoustic and thermal signatures (Tactical Vehicle Electrification Kit (TVEK) - Anti Idle Engineering Change Procedure (ECP)) and Hybrid Electric Vehicle strategies for component maturation and system integration. The specific acquisition approach for these future models and variants will be refined as the technical solutions are matured.

A split procurement will occur between the existing Oshkosh Contract and AM General based on the approved acquisition strategy through FY24.

Program achieved a successful FRP decision in May 2019. The FRP Acquisition Decision Memorandum was signed in June 2019.

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 0605812A / *Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Deve lopment Phase (EMD)*	**Project (Number/Name)** VU9 / *Joint Light Tactical Vehicle*

The trailer requirement as defined in the Capability Production Document (CPD), dated 21 November 2014 was validated on 7 June 2019 by the Army and required the JLTV-T to be fielded to units receiving JLTV trucks with a documented trailer requirement. In November 2019, Army Futures Command validated the JLTV-T Army Procurement Objective (APO) of 18,224. In June 2020, the 1st JLTV Trailer Production Contract was awarded to Oshkosh for 1,410 Army JLTV-Ts.

The JLTV program will continually monitor emerging technologies and capabilities through its partnerships with U.S. Army and Marine Corps science and technology organizations as well as through industry market research and partnerships. The JLTV program will look for opportunities to implement increased capabilities throughout the systems Life Cycle. Engineering initiatives will directly support the Army Demand Reduction Strategy and the operational needs of the Soldier. The anticipated outcome of these initiatives is fully validated Engineering Change Proposals (ECPs) that can be applied to the current and future JLTV fleet.

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 0605812A / *Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)*	**Project (Number/Name)** VU9 / *Joint Light Tactical Vehicle*	

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
Evaluation and assessment of current and future Demand Reduction initiatives	Various	Various : Various	0.993	7.500	Dec 2022	24.311	Oct 2023	22.458	Oct 2024	-		22.458	Continuing	Continuing	-
Evaluation and Assessment of current and future engineering efforts	MIPR	Various : Various	17.572	1.081	Feb 2023	0.314	Jan 2024	1.414	Jan 2025	-		1.414	Continuing	Continuing	Continuing
Test Assets - Follow-on Contract (FOC)	SS/FFP	AM General LLC : TBD	-	0.452	Feb 2023	-		-		-		-	0.000	0.452	-
Follow-on Contract (FOC) support for Test Assets	SS/FFP	AM General LLC : TBD	-	-		0.916	Nov 2023	0.041	Jan 2025	-		0.041	0.000	0.957	-
		Subtotal	18.565	9.033		25.541		23.913		-		23.913	Continuing	Continuing	N/A

Remarks

FY 2025 plans include the development and continuation of Hybrid Electric Vehicles (HEV) and Battery Electric vehicles (BEV); the development and continuation of engineering efforts including 3PMSF winter tires, force protection enhancements, suspension enhancements, signature management mitigations and other emerging technologies; and Follow-On Test Contractor support.

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
JLTV - HEV	Various	Ground Vehicle Systems Center (GVSC) : Warren, MI	-	-		0.989		2.342	Oct 2024	-		2.342	Continuing	Continuing	-
		Subtotal	-	-		0.989		2.342		-		2.342	Continuing	Continuing	N/A

Remarks

FY 2025 plans include support for the development of the Hybrid Electric Vehicle (HEV) program to include program management and monitoring of vendor performance.

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 0605812A / *Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)*	Project (Number/Name) VU9 / *Joint Light Tactical Vehicle*	

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
Live Fire Testing - Follow-on Contract (FOC)	MIPR	Various Government Test Sites : Various	-	-		0.713	Jun 2024	0.758	Jan 2025	-		0.758	0.000	1.471	-
		Subtotal	-	-		0.713		0.758		-		0.758	0.000	1.471	N/A

Remarks

FY 2025 plans include the completion of Follow-on-Contract Live Fire testing.

	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	18.565	9.033		27.243		27.013		-		27.013	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 0605812A / *Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)*	**Project (Number/Name)** VU9 / *Joint Light Tactical Vehicle*

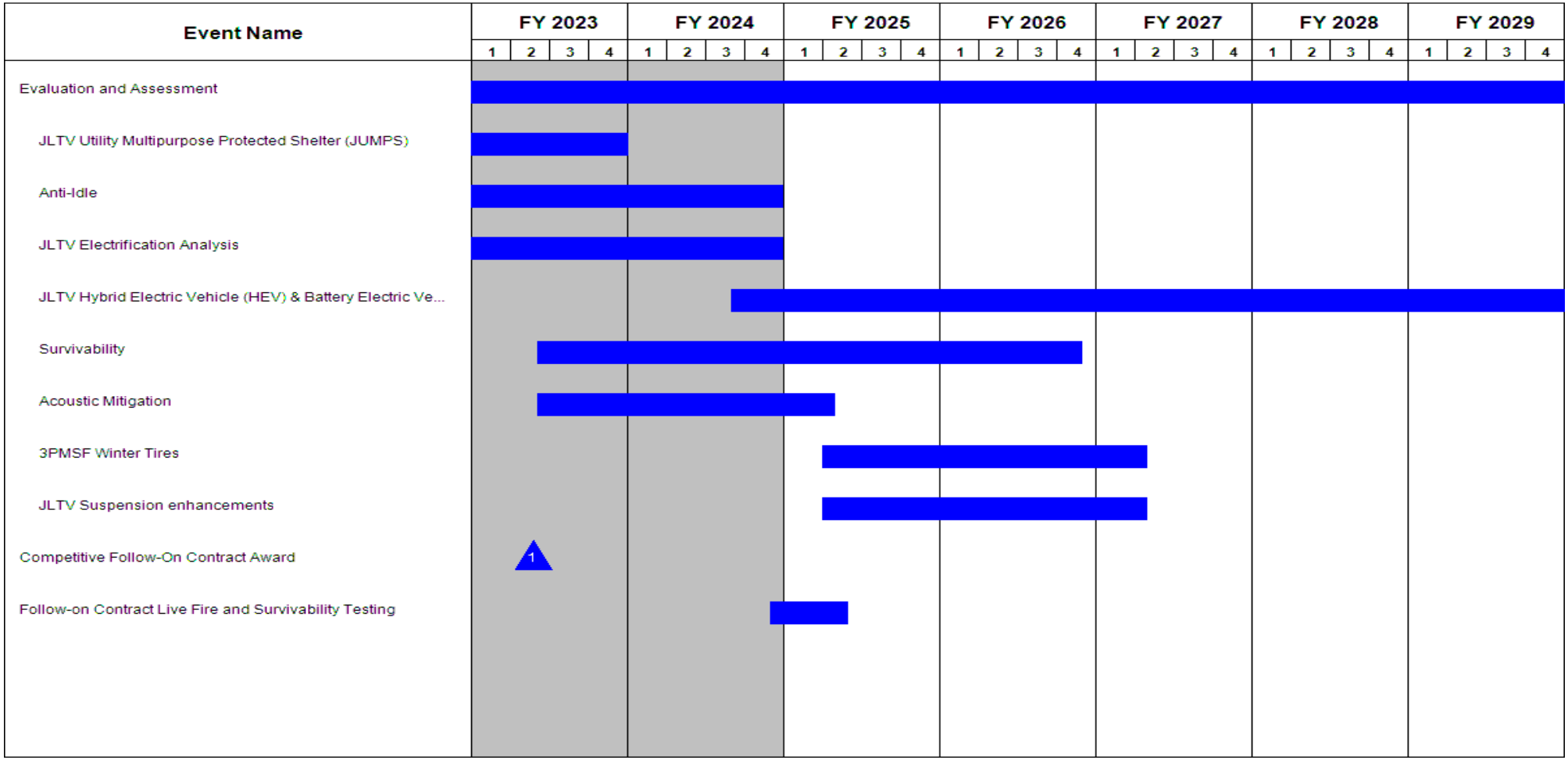


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605812A / *Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Deve lopment Phase (EMD)*	**Project (Number/Name)** VU9 / *Joint Light Tactical Vehicle*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Evaluation and Assessment	3	2018	4	2037
JLTV Utility Multipurpose Protected Shelter (JUMPS)	4	2021	4	2023
Anti-Idle	3	2022	4	2024
JLTV Electrification Analysis	2	2021	4	2024
JLTV Hybrid Electric Vehicle (HEV) & Battery Electric Vehicle (BEV)	3	2024	3	2030
Survivability	2	2023	4	2026
Acoustic Mitigation	2	2023	2	2025
3PMSF Winter Tires	2	2025	2	2027
JLTV Suspension enhancements	2	2025	2	2027
Competitive Follow-On Contract Award	2	2023	2	2023
Follow-on Contract Live Fire and Survivability Testing	4	2024	2	2025

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 0605830A / *Aviation Ground Support Equipment*

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	-	2.851	1.167	0.979	-	0.979	0.980	0.991	1.002	1.011	Continuing	Continuing
EE5: *Aviation Ground Support Equipment*	-	2.851	1.167	0.979	-	0.979	0.980	0.991	1.002	1.011	Continuing	Continuing

A. Mission Description and Budget Item Justification

Aviation Ground Support Equipment (AGSE) Product Office conducts testing and evaluation on critical ground support equipment to enhance the functionality and maintenance of enduring and Future Vertical Lift (FVL) aircraft. This is accomplished by providing aircraft diagnostic, repair and servicing capabilities required to support Army Aviation readiness. Priority efforts include Aviation Ground Power Unit (AGPU 1.1), Aircraft Cleaning and Deicing System (ACDS), and Future Vertical Lift.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	2.959	1.167	1.002	-	1.002
Current President's Budget	2.851	1.167	0.979	-	0.979
Total Adjustments	-0.108	0.000	-0.023	-	-0.023
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.108	-			
• Adjustments to Budget Years	-	-	-0.023	-	-0.023

Change Summary Explanation

Decrease in FY25 funding from the previous PB to the current PB is due to 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 0605830A / *Aviation Ground Support Equipment*	Project (Number/Name) EE5 / *Aviation Ground Support Equipment*	

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
EE5: *Aviation Ground Support Equipment*	-	2.851	1.167	0.979	-	0.979	0.980	0.991	1.002	1.011	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Aviation Ground Support Equipment (AGSE) Product Office conducts testing and evaluation on critical ground support equipment to enhance the functionality and maintenance of enduring and Future Vertical Lift (FVL) aircraft. This is accomplished by providing aircraft diagnostic, repair and servicing capabilities required to support Army Aviation readiness. Priority efforts include Aviation Ground Power Unit (AGPU 1.1), Aircraft Cleaning and Deicing System (ACDS) and Future Vertical Lift.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Aviation Ground Power Unit Next Generation (AGPU 1.1)	2.851	1.167	0.979
Description: The AGPU 1.1 provides external hydraulic, pneumatic, and AC/DC electrical power to meet enduring and future Army aircraft servicing requirements. ***FY 2024 Plans:*** Integrate AGPU1.1 Pre-Planned Product Improvements (P3I) in support of Future Vertical Lift, (FVL). ***FY 2025 Plans:*** Integrate AGPU1.1 Product Improvements in support of Future Vertical Lift, (FVL). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 funding decreased from FY24 due to the transition of the AGPU 1.1 from full developmental activities into a continuous improvement and development posture as the AGPU 1.1 transitioned into production in FY24.			
Accomplishments/Planned Programs Subtotals	2.851	1.167	0.979

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
• AZ3520: *AVIATION GROUND SUPPORT EQUIPMENT*	19.918	25.752	31.181	-	31.181	32.420	32.420	33.437	25.983	0.000	201.111

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 0605830A / *Aviation Ground Support Equipment*	**Project (Number/Name)** EE5 / *Aviation Ground Support Equipment*

D. Acquisition Strategy

This project is an aggregate of Aviation Ground Support Equipment (AGSE) products. While the detailed acquisition strategy varies from product to product, the general strategy is to test and evaluate commercial items and modify for military use.

AGPU 1.1 production contract will be awarded in FY24.

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 0605830A / *Aviation Ground Support Equipment*	Project (Number/Name) EE5 / *Aviation Ground Support Equipment*	

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
AGPU 1.1	MIPR	RTC : Redstone Arsenal, AL	2.571	2.851	Apr 2023	-		-		-		-	0.000	5.422	-
AGPU 1.1 Product Improvements	Various	DEVCOM AvMC : Redstone Arsenal, AL	-	-		1.167	Apr 2024	0.979	Oct 2024	-		0.979	Continuing	Continuing	Continuing
		Subtotal	2.571	2.851		1.167		0.979		-		0.979	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	2.571	2.851		1.167		0.979		-		0.979	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 0605830A / *Aviation Ground Support Equipment*	**Project (Number/Name)** EE5 / *Aviation Ground Support Equipment*

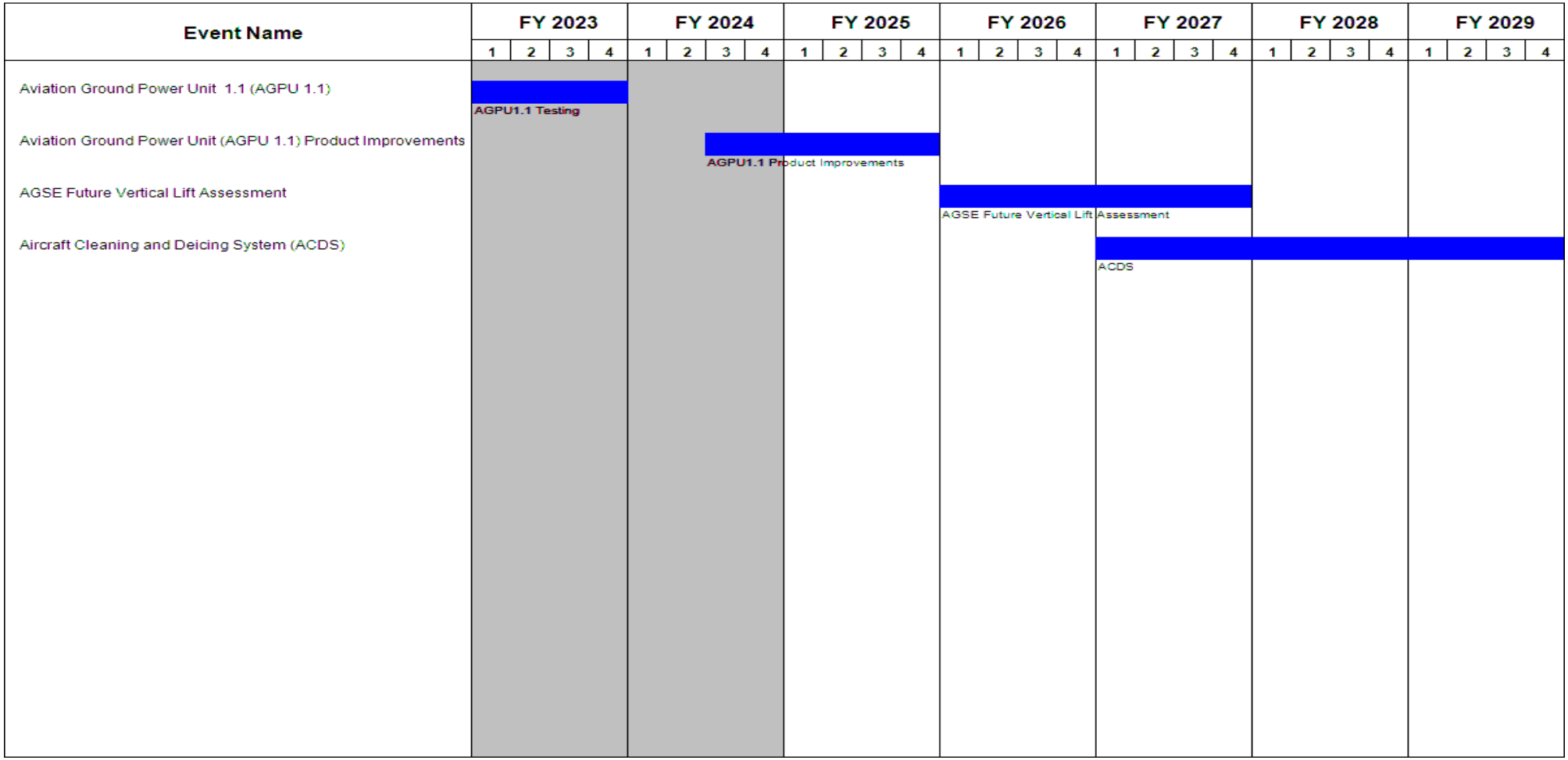


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605830A / *Aviation Ground Support Equipment*	**Project (Number/Name)** EE5 / *Aviation Ground Support Equipment*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Aviation Ground Power Unit 1.1 (AGPU 1.1)	1	2021	4	2023
Aviation Ground Power Unit (AGPU 1.1) Product Improvements	3	2024	4	2025
AGSE Future Vertical Lift Assessment	1	2026	4	2027
Aircraft Cleaning and Deicing System (ACDS)	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* / BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0303032A / *TROJAN - RH12*

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	-	3.761	3.879	3.930	-	3.930	3.930	3.930	3.930	3.930	Continuing	Continuing
RH5: *TROJAN - RH12*	-	3.761	3.879	3.930	-	3.930	3.930	3.930	3.930	3.930	Continuing	Continuing

A. Mission Description and Budget Item Justification

Trojan research and development supports Trojan Next Generation (Trojan NexGEN), formerly Trojan Classic XXI (TCXXI), future capabilities to fulfill the Army's need for worldwide, deployable, remotable, intelligence, surveillance and reconnaissance support that can dynamically execute operations from sanctuary-based to deployed assets in theater. In support of Army Modernization and Army Force Generation, Trojan NexGEN will provide soldiers with a real-world, hands-on, live and near-real time Signals Intelligence (SIGINT) training environment sustaining, maintaining and enhancing their military occupational specialty proficiencies and specific target expertise. This operational readiness training will fulfill the Army's larger intelligence training requirement via a secure, collaborative architecture.

A key factor for future force success is the ability to collect, process, and use information about an adversary while preventing similar information from being disclosed. Trojan NexGEN is a combined operational and readiness mission system which uses advanced networking technology to provide seamless rapid radio relay, secure communications to include voice, data, and electronic reconnaissance support to U.S. forces throughout the world. Trojan NexGEN operations may be easily tailored to fit military intelligence unit training schedules and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting systems. Engineers test and evaluate new digital intelligence collection, processing and dissemination technology using the fielded Trojan NexGEN systems prior to the acquisition of those technologies. As part of the objective intelligence architecture, these capabilities will enable processing and dissemination of real-time intelligence data from various sources to form the intelligence needed to issue orders inside the threat decision cycle. To that end, it is imperative that Trojan NexGEN keeps pace with digitization initiatives in order to respond aggressively to the emerging intelligence communication threat.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	3.761	3.879	3.922	-	3.922
Current President's Budget	3.761	3.879	3.930	-	3.930
Total Adjustments	0.000	0.000	0.008	-	0.008
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	0.008	-	0.008

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 0303032A / *TROJAN - RH12*

Change Summary Explanation

Increase is consistent with the planned lifecycle of this 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 0303032A / *TROJAN - RH12*	Project (Number/Name) RH5 / *TROJAN - RH12*	

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
RH5: *TROJAN - RH12*	-	3.761	3.879	3.930	-	3.930	3.930	3.930	3.930	3.930	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

TROJAN research and development supports TROJAN Next Generation (TROJAN NexGEN), formerly TROJAN Classic XXI (TCXXI), future capabilities to fulfill the Army's need for worldwide, deployable, remotable, intelligence, surveillance and reconnaissance support that can dynamically execute operations from sanctuary-based to deployed assets in theater. In support of Army Modernization and Army Force Generation, TROJAN NexGEN will provide soldiers with a real-world, hands-on, live and near-real time SIGINT training environment sustaining, maintaining and enhancing their military occupational specialty proficiencies and specific target expertise. This operational readiness training will fulfill the Army's larger intelligence training requirement via a secure, collaborative architecture.

A key factor for future force success is the ability to collect, process, and use information about an adversary while preventing similar information from being disclosed. TROJAN NexGEN is a combined operational and readiness mission system which uses advanced networking technology to provide seamless rapid radio relay, secure communications to include voice, data, and electronic reconnaissance support to U.S. forces throughout the world. TROJAN NexGEN operations may be easily tailored to fit military intelligence unit training schedules and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting systems. Engineers test and evaluate new digital intelligence collection, processing and dissemination technology using the fielded TROJAN NexGEN systems prior to the acquisition of those technologies. As part of the objective intelligence architecture, these capabilities will enable processing and dissemination of real-time intelligence data from various sources to form the intelligence needed to issue orders inside the threat decision cycle. To that end, it is imperative that TROJAN NexGEN keeps pace with digitization initiatives in order to respond aggressively to the emerging intelligence communication threat.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Integrate Direction Finding and geo-location	1.200	1.253	1.291
Description: Integrate Direction Finding (DF) and geolocation (GL) technologies into TROJAN Remote Receiving Groups. ***FY 2024 Plans:*** Will continuously adapt/improve the latest Direction Finding (DF) and geolocation technologies for integration into TROJAN NexGEN systems in accordance with Joint Interface Control Document (JICD) 4.2., and JICD 4.2 ELINT (JEL). Will utilize field based risk reduction exercises to test and evaluate integrated technologies of the overall TROJAN Intelligence, Surveillance, and Reconnaissance (ISR) Enterprise. Will continue to research and test for the integration of Electronics Intelligence (ELINT) capabilities. Will resource labor for one MAT DEV technologist, two MAT DEV software engineers and two MAT DEV HW engineers accounted for in the Integrate Direction Finding (DF) and geolocation (GL) project. ***FY 2025 Plans:*** Will continuously adapt/improve the latest Direction Finding (DF) and geolocation technologies for integration into TROJAN NexGEN systems in accordance with Joint Interface Control Document (JICD) 4.2., and JICD 4.2 ELINT (JEL). Will utilize field			

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 0303032A / *TROJAN - RH12*	**Project (Number/Name)** RH5 / *TROJAN - RH12*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
based risk reduction exercises to test and evaluate integrated technologies of the overall TROJAN Intelligence, Surveillance, and Reconnaissance (ISR) Enterprise. Will continue to research and test for the integration of Electronics Intelligence (ELINT) capabilities. Will resource labor for one MAT DEV technologist, two MAT DEV software engineers and two MAT DEV HW engineers accounted for in the Integrate Direction Finding (DF) and geolocation (GL) project. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding changes reflect planned lifecycle of this effort.			
Title: Enable assured communications for the TROJAN Network architecture (formerly Improve security of the TROJAN Network architecture). ***Description:*** Acquire and apply multi-bandwidth compression algorithm technology to maximize TROJAN intelligence network throughput. ***FY 2024 Plans:*** Will continue ongoing effort of transitioning Government off the shelf (GOTS) / Commercial of the shelf (COTS) solutions enabling communication in an anti-access/area denial environment to TROJAN production systems. Will continue to research, evaluate, integrate and test with technologies to enable redundant communications paths and anti-jam technologies based current threats. ***FY 2025 Plans:*** Will continue ongoing effort of transitioning Government off the shelf (GOTS) / Commercial of the shelf (COTS) solutions enabling communication in an anti-access/area denial environment to TROJAN production systems. Will continue cyber security efforts to obtain authority to operate on Army networks. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease reflects alignment of funding to support cyber security efforts.	0.300	0.300	0.243
Title: Integrate and test specialized hardware/software ***Description:*** Integrate and test specialized hardware/software for classified pre-processing of new signals of interest utilizing enhanced signal processing algorithms. Resource development of GLAIVE software (SW). Integrated several new National Security Agency (NSA) SW packages. ***FY 2024 Plans:*** Will continue integration and testing of specialized hardware/software for classified pre-processing and detection of new signals of interest. Will continue to resource development, integration and testing of GOTS/COTS software. Will continue efforts to develop TROJAN Intelligence Surveillance Reconnaissance enterprise. Will continue efforts to integrate JICD 4.2 across all platforms.	1.161	1.196	1.232

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 0303032A / *TROJAN - RH12*	**Project (Number/Name)** RH5 / *TROJAN - RH12*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Migration of NexGEN Family of system capabilities from rack based servers and receivers to a C5ISR/EW Modular Open-Source Suite of Standards (CMOSS) configuration to reduce system Size Weight and Power (SWaP). ***FY 2025 Plans:*** Will continue integration and testing of specialized hardware/software for classified pre-processing and detection of new signals of interest. Will continue to resource development, integration and testing of GOTS/COTS software. Will continue efforts to develop TROJAN Intelligence Surveillance Reconnaissance enterprise. Will continue efforts to integrate JICD 4.2 across all platforms. Migration of NexGEN Family of system capabilities from rack based servers and receivers to a C5ISR/EW Modular Open-Source Suite of Standards (CMOSS) configuration to reduce system Size Weight and Power (SWaP). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding changes reflect planned lifecycle of this effort.			
Title: Research and testing of receivers ***Description:*** Research and testing of receiver packages for fixed and transportable TROJAN systems to acquire non-standard modulations using Digital System Processing (DSP) and Software Defined Radio (SDR) technologies. ***FY 2024 Plans:*** Will continue research and testing of receiver packages for fixed and transportable TROJAN systems to detect and process non-standard modulations using DSP and SDRs. Will integrate receiver packages to enable additional and wideband frequency ranges for COTS/GOTS Software Defined Radios. Will continue to utilize COTS/GOTS hardware and software frameworks to enable multiple SDRs to cooperate on a common backplane; which also includes DSP processing framework (Photon), receiver hardware resource manager, and single user interface application. ***FY 2025 Plans:*** Will continue research and testing of receiver packages for fixed and transportable TROJAN systems to detect and process non-standard modulations using DSP and SDRs. Will integrate receiver packages to enable additional and wideband frequency ranges for COTS/GOTS Software Defined Radios. Will continue to utilize COTS/GOTS hardware and software frameworks to enable multiple SDRs to cooperate on a common backplane; which also includes DSP processing framework (Photon), receiver hardware resource manager, and single user interface application. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding changes reflect planned lifecycle of this effort.	1.100	1.130	1.164
Accomplishments/Planned Programs Subtotals	3.761	3.879	3.930

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 0303032A / *TROJAN - RH12*	**Project (Number/Name)** RH5 / *TROJAN - RH12*

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
• BA0326: *TROJAN*	20.562	30.649	39.344	-	39.344	55.965	67.045	67.175	69.624	0.000	350.364

Remarks

D. Acquisition Strategy

The Acquisition Strategy for the TROJAN NexGEN Systems supported by TROJAN RDT&E is to adapt and leverage from Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) products. Additionally, the Acquisition Strategy leverages off of development by DoD and other Government agencies to the greatest extent possible. TROJAN RDT&E is used to fund the development of enhancing these technologies to meet specific user requirements.

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 0303032A / *TROJAN - RH12*	Project (Number/Name) RH5 / *TROJAN - RH12*	

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
Integrate Direction Finding and geo-location	Various	APG : MD	9.362	1.200	Oct 2022	1.253	Oct 2023	1.291	Oct 2024	-		1.291	Continuing	Continuing	-
Enable assured communications for the TROJAN Network Architecture	Various	APG : MD	8.442	0.300	Oct 2022	0.300	Oct 2023	0.243	Oct 2024	-		0.243	Continuing	Continuing	-
Research and testing of Receivers	Various	APG : MD	4.750	1.100	Oct 2022	1.130	Oct 2023	1.164	Oct 2024	-		1.164	Continuing	Continuing	-
		Subtotal	22.554	2.600		2.683		2.698		-		2.698	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
Integration and Testing of Hardware/Software	Various	APG : MD	9.345	1.161	Oct 2022	1.196	Oct 2023	1.232	Oct 2024	-		1.232	0.000	12.934	Continuing
		Subtotal	9.345	1.161		1.196		1.232		-		1.232	0.000	12.934	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	31.899	3.761		3.879		3.930		-		3.930	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 0303032A / *TROJAN - RH12*	**Project (Number/Name)** RH5 / *TROJAN - RH12*

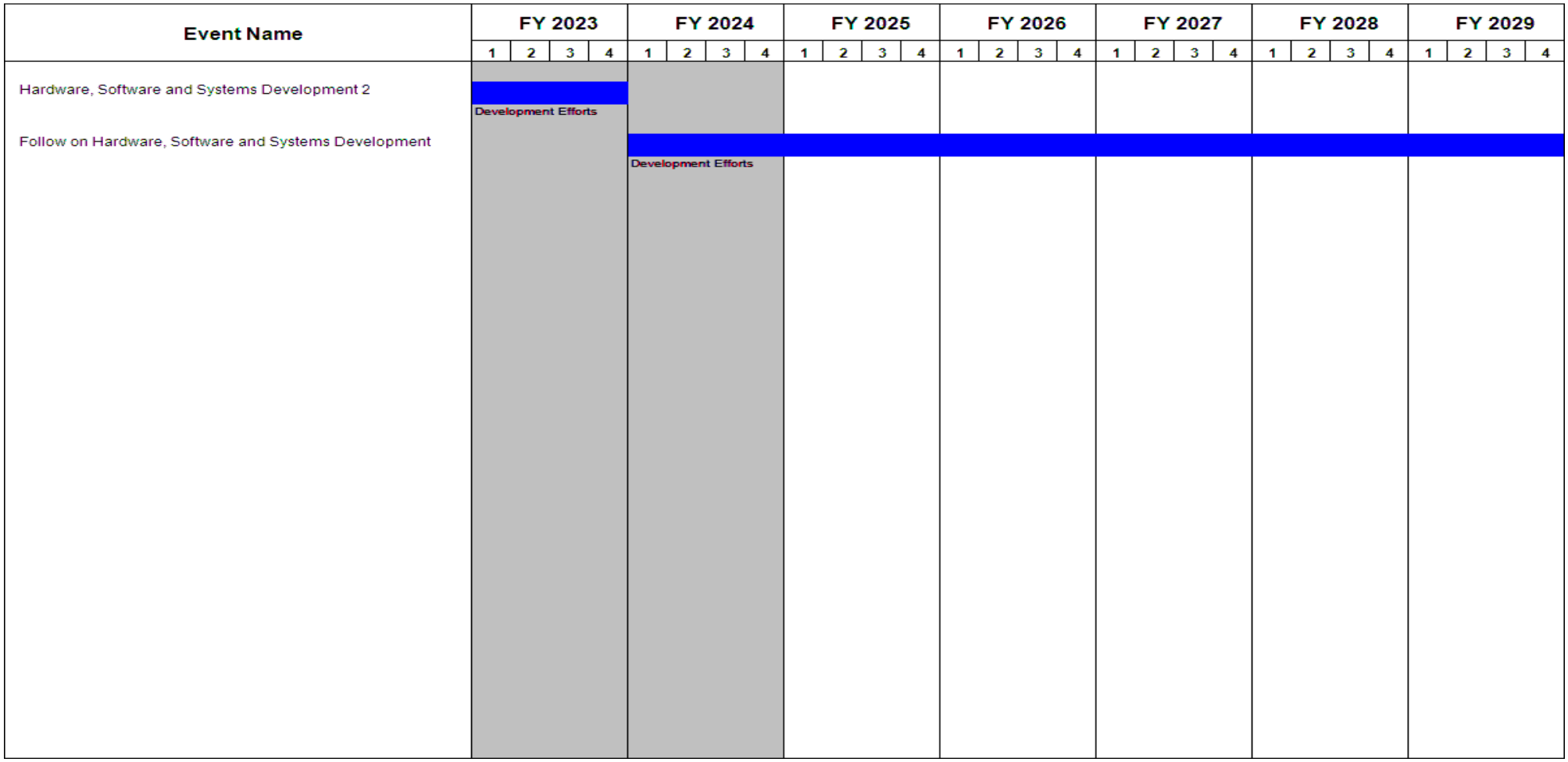


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0303032A / *TROJAN - RH12*	**Project (Number/Name)** RH5 / *TROJAN - RH12*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Hardware, Software and Systems Development	1	2014	4	2018
Hardware, Software and Systems Development 2	1	2019	4	2023
Follow on Hardware, Software and Systems Development	1	2024	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 0303767A *I AMBIT - Pre-Auctioned SRF*

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	21.730	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.730
XRB: *AMBIT RDTE POST-AUCTION TRANSITION PLAN*	-	21.730	-	-	-	-	-	-	-	-	0.000	21.730

A. Mission Description and Budget Item Justification

In accordance with 47 USC 928 and the Commercial Spectrum Enhancement Act (CSEA) Title, P.L. 108-494, dated December 23, 2004, established the Spectrum Relocation Fund (SRF) to provide Federal agencies a mechanism to recover the cost associated with relocating spectrum dependent systems from spectrum bands which were auctioned for commercial purposes. The activities described meet the CSEA and SRF requirements for funding to support spectrum relocation and the Americas Mid-band Initiative Team (AMBIT).

The Department of Defense (DoD) PRE-AUCTION AMBIT Transition Plan supports the relocation and sharing costs associated with the reallocation of an electromagnetic spectrum (EMS) band (in this case, 3450-3550 MHz), as required by the Enhanced 911 Services Act, 2004 (PL 108-494) and as amended by the Middle-Class Tax Relief Act, 2012 (PL 112-96), and defines the necessary RDT&E efforts to share EMS access for governmental and commercial use of the AMBIT band. When the Federal Communications Commission (FCC) auctions EMS bands to the commercial sector, previously reserved for governmental or military use, the DoD incurs costs as it must relocate to a new EMS band or share the auctioned band with commercial entities. Funds from the SRF are made available for DoD to pay relocation or sharing costs related to auctioned EMS bands, such as the costs of any modification or replacement of equipment, spares, associated ancillary equipment, software, facilities, operating manuals, training, or compliance with regulations that are attributable to relocation or sharing; the costs of all engineering, equipment, software, site acquisition, and construction, as well as any legitimate and prudent transaction expenses, including term-limited Federal civil servant and contractor staff necessary to carry out the relocation or sharing activities of a Federal entity, and reasonable additional costs incurred by the Federal entity that are attributable to relocation or sharing, including increased recurring costs. The SRF is funded with proceeds from FCC conducted auctions of spectrum licenses. SRF funds have an indefinite obligation period and remain available until expended (X Year). The DoD Chief Information Officer (CIO) executes oversight of DoD spectrum relocation and sharing efforts.

No funding requested in this line in FY25.

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 0303767A *I AMBIT - Pre-Auctioned SRF*		
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	21.730	0.000	0.000	-	0.000
Total Adjustments	21.730	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	21.730	-			
• 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 0303767A / *AMBIT - Pre-Auctioned SRF*	Project (Number/Name) XRB / *AMBIT RDTE POST-AUCTION TRANSITION PLAN*	

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
XRB: *AMBIT RDTE POST-AUCTION TRANSITION PLAN*	-	21.730	-	-	-	-	-	-	-	-	0.000	21.730
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Department of Defense Chief Information Officer (DoD CIO) established America's Mid-Band Initiative Team (AMBIT) in response to a White House 5G initiative to auction 100 MHz of spectrum. Amongst the affected programs, the AN/TPQ-53 Counterfire Radars program received funds to assess potential spectrum coexistence with the 5G network in the auctioned band, increase bandwidth and waveform agility, and implement solutions for the continuity of the Digital Distributed Receiver Exciter (DDREX) modernization project.

No funding requested in this line in FY25.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: DDREX AMBIT ***Description:*** Develop Digital Receiver Exciter Receiver (DDREX) integration solutions for hardware and software to operate in a compressed and congested spectrum environment.	21.730	-	-
Accomplishments/Planned Programs Subtotals	21.730	-	-

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 0303767A / *AMBIT - Pre-Auctioned SRF*	**Project (Number/Name)** XRB / *AMBIT RDTE POST-AUCTION TRANSITION PLAN*

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
DDREX AMBIT Integration	SS/CPFF	Lockheed Martin : Liverpool, NY 13088	-	21.730	Jan 2023	-		-		-		-	0.000	21.730	-
		Subtotal	-	21.730		-		-		-		-	0.000	21.730	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	-	21.730		-		-		-		-	0.000	21.730	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 0303767A / *AMBIT - Pre-Auctioned SRF*	**Project (Number/Name)** XRB / *AMBIT RDTE POST-AUCTION TRANSITION PLAN*

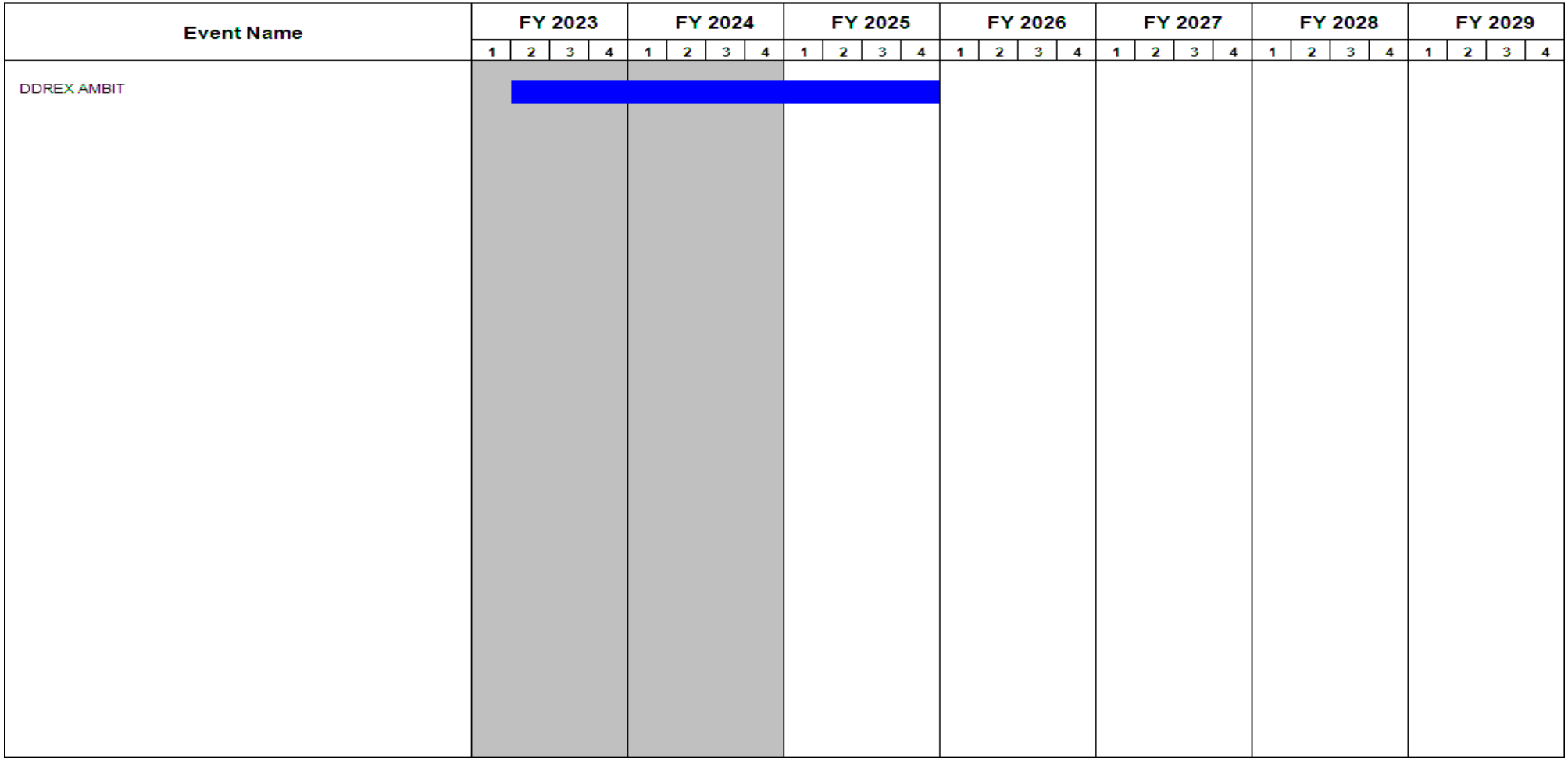


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0303767A / *AMBIT - Pre-Auctioned SRF*	**Project (Number/Name)** XRB / *AMBIT RDTE POST-AUCTION TRANSITION PLAN*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
DDREX AMBIT	2	2023	4	2025

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 0304270A / *Electronic Warfare 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	-	97.616	137.186	131.096	-	131.096	74.090	5.665	5.672	5.729	0.000	457.054
CK3: *TLS Echelon Above Brigade (EAB)*	-	29.657	66.469	116.333	-	116.333	66.976	5.665	5.672	5.729	0.000	296.501
EW6: *ARAT-TSS*	-	5.813	5.722	-	-	-	-	-	-	-	0.000	11.535
FJ5: *Terrestrial Layer System*	-	62.146	64.995	14.763	-	14.763	7.114	-	-	-	0.000	149.018

A. Mission Description and Budget Item Justification

This Program Element encompasses engineering and manufacturing development for tactical Electronic Warfare (EW) terrestrial (ground) employment applications. The systems under this program provide the Army with the capability to detect, identify, locate, collect/process, report, and engage (disrupt, degrade or deny) hostile forces to prevent their effective use of communications & non-communications networks, counter-mortar/counter-battery radars, surveillance radars, electronically fused munitions and other enemy threats using the Electro-Magnetic Spectrum (EMS). A portion of this funding line is a key enabler of the Army Modernization Priorities in support of Terrestrial Layer System. The remaining portion enables the reprogramming of mission software in response to changes in threat signatures for the Army Reprogramming Analysis Team (ARAT).

Project CK3 supports the development of Terrestrial Layer System Echelons Above Brigade (TLS EAB). TLS EAB will provide Signals Intelligence (SIGINT), Electronic Warfare (EW), and Cyber-enabling integrated solution to support Multi Domain Battle capability gaps and provide Force Protection, Situational Development, and Information Superiority to Army Divisions, Corps and Multi-Domain Task Forces. TLS EAB- Priority #2 Enablers - Supported/endorsed by Network Cross Functional Team (CFT), Assured Position Navigation and Timing (APNT)/Space CFT, Long Range Precision Fire (LRPF) CFT. Enables integration, interoperability and force modernization with emerging capabilities in support of Multi-Domain Task Forces and Operational Needs Statements.

Project EW6 provides for the Army Reprogramming Analysis Team (ARAT), a Department of the Army established project to develop techniques, methods, tools and architecture to reprogram mission software embedded in Army EW systems, Force Protection Systems (FPS), and Target Sensing Systems (TSS) in response to changes in threat signatures. ARAT Research and Development enables continuous development of: 1) automated threat analysis tools to rapidly detect (flag) threat changes within intelligence systems, 2) tools to minimize the time to develop EW Mission Software and Products (MSP) for both air and ground EW systems, 3) tools and technology to minimize the time required to test and validate MSPs, 4) improved communications conduits to transmit mission software changes to field users, and 5) enhanced mission-software uploading tools. These efforts allow for rapid threat analysis, simulation, mission software development, distribution and uploading of mission software changes directly to the supported Soldier in the field. The ARAT project will develop, test and equip an Army-wide infrastructure capable of rapidly reprogramming electronic combat software embedded in offensive and defensive weapon systems.

Project FJ5 supports the development of the Middle Tier Acquisition, Terrestrial Layer System Brigade Combat Team (TLS BCT), an effort that initiated in FY 2020 (funded with PE 0604021A / AW7). TLS BCT will provide Signals Intelligence (SIGINT), Electronic Warfare (EW), and Cyber-enabling integrated solution to support Multi Domain Battle capability gaps and provide Force Protection, Situational Development, and Information Superiority in support of Multi-Domain Task Forces and

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 0304270A *I Electronic Warfare Development*

Operational Needs Statements. TLS BCT will equip mounted formations with vehicles organic to their formations (SBCT- Stryker MEV DVAH1, ABCT- AMPV) and a manpack solution for IBCTs. TLS BCT - MDO Relevancy: Priority #2 Enablers - Supported/endorsed by Network Cross Functional Team (CFT), Assured Position Navigation and Timing (APNT)/Space CFT, Long Range Precision Fire (LRPF) CFT.

FY 2025 funds the Terrestrial Layer System Echelons Above Brigade (TLS EAB) efforts (Project CK3) and Terrestrial Layer System Brigade Combat Team (TLS BCT) efforts (Project FJ5).

The total cost of the TLS Brigade Combat Team (BCT) Middle Tier of Acquisition effort is $269.5 million RDT&E from FY20 to FY25.

The total cost of the TLS Echelon Above Brigade (EAB) Middle Tier of Acquisition effort is $304.5 million RDTE from FY22 to FY26. The remainder of the TLS EAB MTA is fully funded across the Future Years Defense Program.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	99.938	137.186	48.689	-	48.689
Current President's Budget	97.616	137.186	131.096	-	131.096
Total Adjustments	-2.322	0.000	82.407	-	82.407
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-2.322	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	82.407	-	82.407

Change Summary Explanation

TLS BCT, Project FJ5, increase of $14.763 million in FY 2025 to complete TLS BCT AMPV Variant prototypes and execute the TLS BCT Operational Testing.
TLS EAB, Project CK3, increase of $73.496 million in FY 2025 to complete TLS EAB Prototype development and operational demonstration.
ARAT, Project EW6, decrease of $5.852 million in FY 2025 due to realignment of funding to 0604270A (EW Development), Project CR8 (Army Reprogramming Analysis Team (ARAT)

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 0304270A / *Electronic Warfare Development*	Project (Number/Name) CK3 / *TLS Echelon Above Brigade (EAB)*	

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
CK3: *TLS Echelon Above Brigade (EAB)*	-	29.657	66.469	116.333	-	116.333	66.976	5.665	5.672	5.729	0.000	296.501
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 Terrestrial Layer System Echelons Above Brigade (TLS EAB). The TLS EAB will provide Army Divisions, Corps and Multi-Domain Task Forces (MDTF) extended range, integrated full spectrum Signals Intelligence (SIGINT), Electronic Warfare (EW), and Cyber-enabling non-kinetic offensive capabilities to support large scale combat operations. TLS EAB's information Superiority provides Indications and Warnings, Force Protection and Situational Awareness to influence the commander's decision cycle, improve targeting timeliness and accuracy, and provides electronic attack and offensive cyber warfare options to deny, degrade, disrupt, or otherwise manipulate the targeted force. TLS EAB employs technologically advanced systems with a modular open-system approach for multiple configurations that can be efficiently sustained and effectively upgraded to provide capabilities against changing near peer and emerging threats to address joint all domain capability gaps. TLS EAB- Priority #2 Enablers - Supported/endorsed by Network Cross Functional Team (CFT), Assured Position, Navigation and Timing (PNT)/Space CFT, Long Range Precision Fire CFT. Enables integration, interoperability and force modernization with emerging capabilities in support of Multi-Domain Task Forces and Operational Needs Statements.

The total cost of the TLS Echelon Above Brigade (EAB) Middle Tier of Acquisition effort is $304.5 million RDTE from FY22 to FY26. The remainder of the TLS EAB MTA is fully funded across the Future Years Defense Program.

Justification:
FY25 RDT&E funds in the amount of $116.333 million will fund TLS EAB Foundational System Development, Interoperability and Advanced Threat Prototyping Activities, Test Activities and Technical/Program Management.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: TLS EAB Prototyping	23.887	33.052	90.515
Description: TLS Echelons Above Brigade (EAB) is fulfilling distinct capabilities to support Division, Corps and Multi-Domain Task Force commanders. TLS EAB will be integrated onto different prime mover platforms than TLS Brigade Combat Team (BCT) and will employ different technologies and hardware to fulfill the unique extended range capabilities to support large scale combat operations.			
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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** CK3 / *TLS Echelon Above Brigade (EAB)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
In FY24, TLS EAB will continue System Level Prototypes development, platform integration, supporting technical system testing and critical soldier touchpoints. (Full-scale Phase 2 of the OTA) ***FY 2025 Plans:*** TLS EAB will continue the development of System Level Prototype Variants, platform integration, supporting technical system testing and critical soldier touchpoints. Develop full-scale Phase 2 Prototypes and deliver initial prototypes. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Fiscal Year (FY) 2025 funding Increase of $57.463 million due to increase of TLS EAB full scale prototype variant development and delivery of System Level Prototypes.			
Title: Demonstration, Experimentation, and Prototyping ***Description:*** Funds will provide for demonstration, experimentation, and prototyping for TLS EAB. ***FY 2024 Plans:*** In FY24, planning includes participation in key events to continue to inform requirement (CDD)/Tactic, Techniques and Procedures (TTP). ***FY 2025 Plans:*** Planning includes participation in TLS EAB Multi-Domain Task Forces (MDTF) and Corps variant Prototype Developmental Demonstrations (PDD) touchpoints, Critical vulnerability assessments, and Army-led experimental events to inform the development of requirements and enhance the utilization of TLS EAB. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Fiscal Year (FY) 2025 funding Increase of $10.082 million due to increase of the TLS EAB PDD touchpoints, experimentation, and full-scale prototype development.	3.074	0.500	10.582
Title: Technical/Program Management ***Description:*** TLS EAB Technical/Program Management. ***FY 2024 Plans:*** FY 2024 technical engineering and program management support for TLS EAB Full scale Phase 2 Prototype development. ***FY 2025 Plans:*** FY 2025 technical engineering and program management support for TLS EAB full scale prototype variant development, interoperability and advanced threat prototyping activities, and delivery of system level prototypes. ***FY 2024 to FY 2025 Increase/Decrease Statement:***	2.696	6.618	9.153

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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** CK3 / *TLS Echelon Above Brigade (EAB)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Fiscal Year (FY) 2025 funding increase of $2.535 million due to TLS EAB technical engineering support of the PDD touchpoints, experimentation and delivery of the initial prototypes.			
Title: Second Variant Non-Recurring Engineering (NRE) ***Description:*** Variant Non-Recurring Engineering (NRE) for TLS EAB. ***FY 2024 Plans:*** In FY24, TLS EAB will have additional variant for non-recurring engineering. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Fiscal Year (FY) 2025 funding decrease of $21.289 million due to realignment of NRE activities to the TLS EAB prototyping planned program to complete the additional prototypes.	-	21.289	-
Title: Prototype Test Activities ***Description:*** Prototyping Test Activities for TLS EAB. ***FY 2024 Plans:*** In FY24, TLS EAB will support the completion and additional prototype articles and increase vendor test events to refine system requirements and retrieve desired characteristics. ***FY 2025 Plans:*** Continues testing and demonstration activities of additional TLS-EAB prototype components and variants to enhance system requirements and capabilities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Fiscal Year (FY) 2025 funding increase of $1.073 million for TLS EAB Initial prototype delivery will require increased support for testing events and demonstration activities.	-	5.010	6.083
Accomplishments/Planned Programs Subtotals	29.657	66.469	116.333

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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** CK3 / *TLS Echelon Above Brigade (EAB)*

D. Acquisition Strategy

A competitive acquisition approach was utilized for TLS EAB development. TLS EAB is using Middle Tier Acquisition (MTA) approach to rapidly deliver an integrated ground intelligence, electronic warfare and cyber capability on multiple platform types to align with maneuver forces. The TLS EAB will leverage authorities to accelerate delivery through rapid prototyping with rapid fielding authorities or MCA production decision/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 0304270A / *Electronic Warfare Development*	Project (Number/Name) CK3 / *TLS Echelon Above Brigade (EAB)*	

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
Technical/Program Management	C/CPFF	MAG Aerospace : Aberdeen, MD	1.961	2.696	Jun 2023	6.618	Jul 2024	9.153	Jun 2025	-		9.153	0.000	20.428	-
		Subtotal	1.961	2.696		6.618		9.153		-		9.153	0.000	20.428	N/A

Remarks

Includes technical engineering and program management support from competitive contract for Systems Engineering and Technical Assistance (SETA).

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
TLS EAB Foundational System Development	C/CPFF	Lockheed Martin : Syracuse, NY	14.642	21.849	Jun 2023	33.052	May 2024	85.177	May 2025	-		85.177	0.000	154.720	-
Interoperability and Advanced Threat Prototyping Activities	IA	Various : Aberdeen, MD	0.896	3.074	Dec 2023	0.500	Apr 2024	10.582	Apr 2025	-		10.582	0.000	15.052	-
Additional Variant Non-Recurring Engineering (NRE)	IA	Various : Aberdeen, MD	-	-		21.289	Jun 2024	-		-		-	0.000	21.289	-
		Subtotal	15.538	24.923		54.841		95.759		-		95.759	0.000	191.061	N/A

Remarks

Competitive OTA for development and integration. Funding supports continued Interoperability and Advanced Threat Prototyping Activities for Terrestrial Layer System Echelons Above Brigade (TLS EAB) via a combination of various support contracts and Government support.

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 and Technical Services	IA	Various : Aberdeen, MD	2.011	2.038	Jun 2023	-		5.338	Jun 2025	-		5.338	0.000	9.387	-
		Subtotal	2.011	2.038		-		5.338		-		5.338	0.000	9.387	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 0304270A / *Electronic Warfare Development*	Project (Number/Name) CK3 / *TLS Echelon Above Brigade (EAB)*	

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

Matrix Government support to Terrestrial Layer System Echelons Above Brigade (TLS EAB) program.

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 Events	IA	Various : Aberdeen, MD	-	-		5.010	May 2024	6.083	May 2025	-		6.083	0.000	11.093	-
		Subtotal	-	-		5.010		6.083		-		6.083	0.000	11.093	N/A

Remarks

Test & Evaluation efforts will be accomplished via a combination of various support contracts and Government support.

	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	19.510	29.657		66.469		116.333		-		116.333	0.000	231.969	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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** CK3 / *TLS Echelon Above Brigade (EAB)*

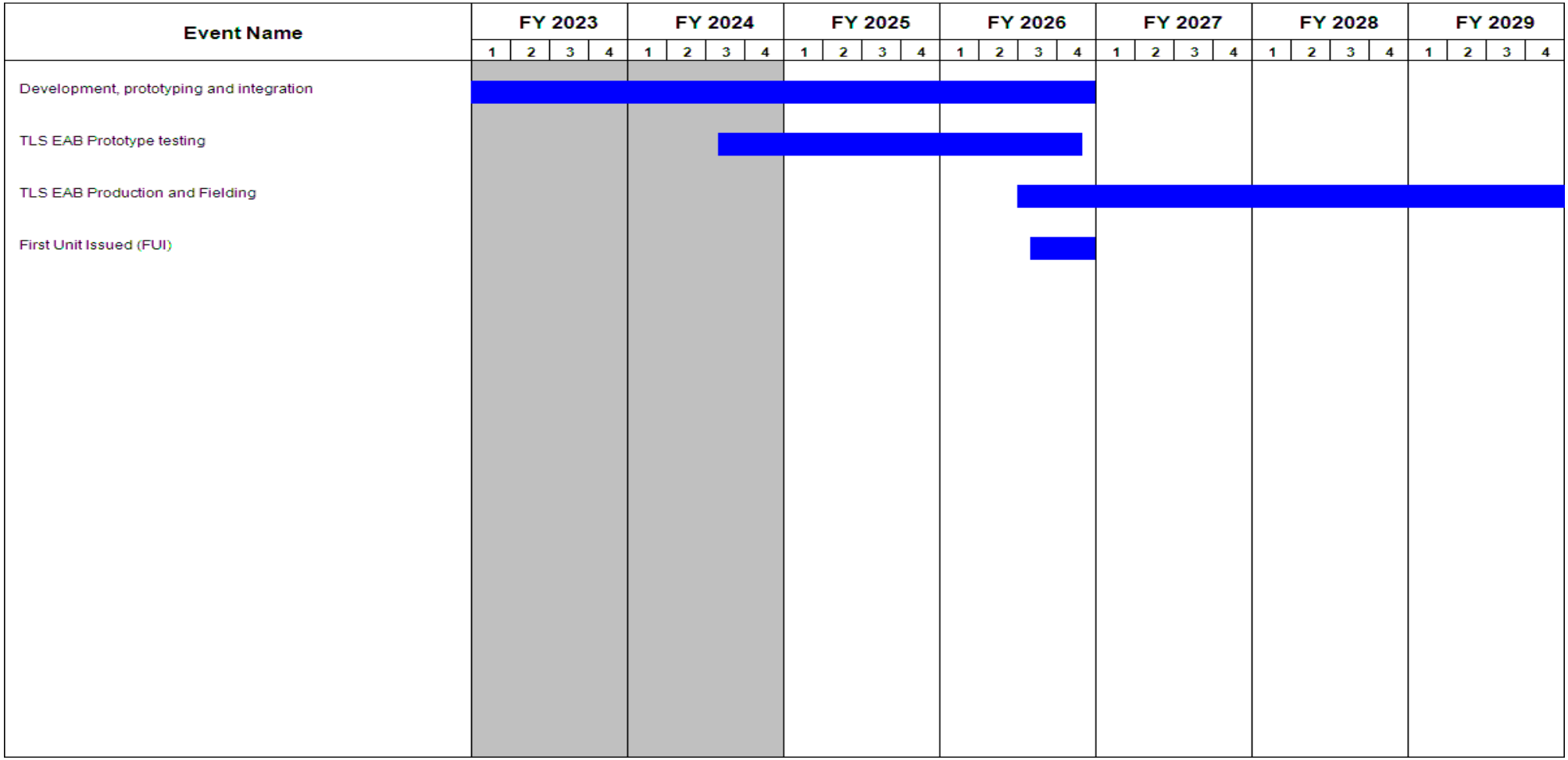


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** CK3 / *TLS Echelon Above Brigade (EAB)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Development, prototyping and integration	4	2022	4	2026
TLS EAB Prototype testing	3	2024	4	2026
TLS EAB Production and Fielding	3	2026	4	2030
First Unit Issued (FUI)	3	2026	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 0304270A / *Electronic Warfare Development*				Project (Number/Name) EW6 / *ARAT-TSS*			
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**
EW6: *ARAT-TSS*	-	5.813	5.722	-	-	-	-	-	-	-	0.000	11.535
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Funding is realigned to 0604270A (EW Development), Project CR8 (Army Reprogramming Analysis Team (ARAT) in FY25.

The Army Reprogramming Analysis Team (ARAT) is a Department of the Army established program to develop techniques, methods, tools, and architecture to rapidly reprogram mission software embedded in Army Electronic Warfare (EW) Force Protection Systems (FPS) in response to changes in threat signatures. The regulatory guidance directing this mission is contained in Army Regulation (AR) 525-15, AR 525-22, and AR 95-1. The ARAT develops integrated technical solutions required to counter increasingly sophisticated EW Signal threats to US Forces. The ARAT mission software reprogramming infrastructure supports the Army Campaign Plan to provide the Regionally Aligned Forces tactical Commander timely rapid-reprogramming capability of EW systems with mission software. The ARAT mission responsibility is to develop and distribute Mission Software and Products to forward deployed combat forces. ARAT identifies and analyzes worldwide threat signature changes which affect EW systems; determines the impact of observed Signal Intelligence (SIGINT) signature changes; rapidly develops new mission software to adapt friendly systems to detect and defeat enemy threats to U.S. Army ground and air platforms; disseminates the Mission Software and Products to forward deployed forces, and provides government developed tools and software to upload new mission software into the affected EW systems.

A. Mission Description and Budget Item Justification

Current military operations are conducted in a rapidly changing threat environment, where Improvised Explosive Devices (IEDs), Infra Red (IR) man-portable air defense systems (MANPADS) seekers, radar guided surface-to-air-missiles (SAM), laser guided weapons, anti-helicopter mines, and targeting sensors are proliferating and evolving. Integrated solutions are required to counter increasingly sophisticated EW threats. The ARAT reprogramming infrastructure supports the tactical Commander by providing timely rapid reprogramming of mission software and information dissemination for Army supported, Joint and allied services. ARAT supports integrated reprogramming of target acquisition, target engagement, vehicle survivability, and Aircraft Survivability Equipment (ASE). ARAT rapid-reprogramming infrastructure supports tactical requirements for deployed aircraft and ground-based (e.g. Counter Radio-Controlled Improvised Explosive Device (CREW)) survivability systems. ARAT identifies and analyzes threat signature changes which affect EW systems; determines the impact of observed signature changes; develops new mission software to adapt the system to the changes; disseminates the mission software; and provides methods to upload the new mission software into the affected EW systems. Each element within the ARAT infrastructure plays a specific role within the program's rapid reprogramming process, providing the Soldier with the capability to install mission and target identification software at the lowest possible level, thus maximizing flexibility for tactical commanders. ARAT participates in the operational and developmental test design of Army EW systems, and supports Joint Service Reprogramming Exercises in all theaters. ARAT Research and Development enables continuous development of: 1) automated threat analysis tools to rapidly detect (flag) threat changes within the intelligence system, 2) tools to minimize the time to develop Mission Software and Products (MSP), 3) tools and technology to minimize the time required to test and validate MSPs, 4) improved communications conduits to rapidly transmit mission software to upload into supported EW systems. These efforts allow for rapid threat analysis, threat modeling and simulation, mission software development and testing, distribution and uploading of mission software directly to the supported Soldier in the field.

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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** EW6 / *ARAT-TSS*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Keeping Pace with the Enemy and Technology ***Description:*** This effort focuses on developing a capability for the Government to rapidly develop and distribute organic mission software solutions for multiple EW systems. The Army must continually modernize and enhance software tools, hardware modernization, and processes counter enemy technology. ARAT EW6 executes Research, Development, Test, and Evaluation (RDTE) funding to provide an organic Army capability for this organization to rapidly develop, test and distribute mission software solutions for forward deployed combat forces. ***FY 2024 Plans:*** ARAT plans to execute funding to enhance current software development and test infrastructure. ARAT will modernize to include threat simulations utilizing Software Defined Radios (SDR). ARAT EW6 plan to integrate Software Defined Radios into the program's software development and test infrastructure to enhance the Army's ability to replicate sophisticated peer and near peer Electronic Warfare systems. The modernized Software Defined Radios once integrated into the laboratory will allow for expedited development and testing of mission software to detect and defeat enemy Electronic Warfare systems. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decreased funding due to realignment of funding to 0604270A (EW Development), Project CR8 (Army Reprogramming Analysis Team (ARAT)	2.721	2.703	-
Title: Infrastructure Improvements Multispectral ***Description:*** This effort focuses on enhancing the Army's Multispectral Missile Warning System (MWS) software sustainment infrastructure. With the worldwide proliferation of MANPADS the Army must have the capability to rapidly analyze and develop mission software solutions that detect and counter MANPADS to defend Army Aviation platforms against this lethal threat. ***FY 2024 Plans:*** ARAT will continue infrastructure enhancements to include preparations for integrating new ground Electronic Warfare systems into the ARAT Development and Testing Enterprise in support of migrating to a multispectral capability to incorporate Multi-Domain Operations. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decreased funding due to realignment of funding to 0604270A (EW Development), Project CR8 (Army Reprogramming Analysis Team (ARAT)	0.747	0.719	-
Title: Infrastructure Improvement Radio Frequency General ***Description:*** This effort focuses on enhancing the Army's Radio Frequency (RF) EW system Mission Software and Products (MSP) development and distribution infrastructure. The Army must fight in a contested and congested EW environment. Mission	1.289	1.271	-

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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** EW6 / *ARAT-TSS*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
software solutions to defend against RF threats must be rapidly developed, tested, and distributed to Soldiers on an ever changing battlefield. ***FY 2024 Plans:*** ARAT will continue with modernization efforts to enhance Radio Frequency simulations of sophisticated peer and near peer threat systems. The modernization efforts will provide the Army the ability to rapidly program aircraft Radar Warning Receivers (RWR) to accurately detect and defeat enemy radar guided missiles directed against Army Aviation platforms. ARAT EW6 will leverage modernized Software Defined Radio technologies that will provide more accurate representation of enemy Electronic Warfare systems. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decreased funding due to realignment of funding to 0604270A (EW Development), Project CR8 (Army Reprogramming Analysis Team (ARAT)			
Title: Threat Flagging and Mission Data Set Reprogramming Tool Development ***Description:*** This effort focuses on enhancing the Army's capability to monitor changes in enemy Electronic Warfare systems that affect system performance of Army detection, declaration, and countermeasure Electronic Warfare systems onboard both air and ground platforms. The enemy is continuously developing or modifying it's Electronic Warfare systems. For Army platforms to have protection against enemy systems it must have a robust capability to immediately detect changes in threat system performance and rapidly develop, test, and distribute a mission software solution that counters the threat. This effort will enhance the Army's capability bridge detection of a change in enemy threat and the rapid development of Mission Software and Products. ***FY 2024 Plans:*** ARAT EW6 will continue to enhance threat change detection capabilities and tailor the flagging model to system specific to Electronic Warfare systems on Blackhawk and Apache helicopters. Threat change detection provides the Army the capability to rapidly assess parametric changes in enemy Radio Frequency radar systems. The ability to detect changes in enemy Radio Frequency systems increases the accuracy of mission software for Radar Warning systems on Army Aviation platforms. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decreased funding due to realignment of funding to 0604270A (EW Development), Project CR8 (Army Reprogramming Analysis Team (ARAT)	1.056	1.029	-
Accomplishments/Planned Programs Subtotals	5.813	5.722	-

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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** EW6 / *ARAT-TSS*

C. Other Program Funding Summary ($ in Millions)

Remarks

ARAT has no other Program funding.

D. Acquisition Strategy

The efforts to be funded in this project will require a combination of systems specific and high-tech knowledge. The contractual services portion for the project will be obtained from both the Communications-Electronics Command (CECOM) Software Engineering Center (SEC) competitive omnibus and the Program Executive Office - Simulation, Training and Instrumentation (PEO STRI), GSA SBIR, and the Defense Technical Intelligence Center (DTIC) high tech contracts.

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 0304270A / *Electronic Warfare Development*	Project (Number/Name) EW6 / *ARAT-TSS*	

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
USG Labor	Various	CECOM SEC : Various Locations	5.632	0.596		0.596		-		-		-	Continuing	Continuing	Continuing
Travel	Various	CECOM SEC : Various Locations	1.182	0.096		0.098		-		-		-	Continuing	Continuing	Continuing
		Subtotal	6.814	0.692		0.694		-		-		-	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
Development Support	Various	CECOM SEC, RDECOM, DTIC : Various Locations	60.246	5.121	Apr 2023	5.028	Mar 2024	-		-		-	Continuing	Continuing	Continuing
		Subtotal	60.246	5.121		5.028		-		-		-	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
SIGINT Upgrades	TBD	TBD : TBD	-	-		-		0.000		-		0.000	-	-	-
		Subtotal	-	-		-		0.000		-		0.000	-	-	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	67.060	5.813		5.722		0.000		-		0.000	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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** EW6 / *ARAT-TSS*

	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Software Development Enhancement Support (see notes in Schedule Detail)																												

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Software Development Enhancement Support (see notes in Schedule Detail)																												

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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** EW6 / *ARAT-TSS*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Software Development Enhancement Support (see notes in Schedule Detail)	1	2015	4	2021

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 0304270A / *Electronic Warfare Development*	Project (Number/Name) FJ5 / *Terrestrial Layer 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
FJ5: *Terrestrial Layer System*	-	62.146	64.995	14.763	-	14.763	7.114	-	-	-	0.000	149.018
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 Terrestrial Layer System Brigade Combat Team (TLS BCT), a Middle Tier of Acquisition program, which provides Army maneuver forces integrated full spectrum Signals Intelligence (SIGINT), Electronic Warfare (EW), and Cyber-enabling non-kinetic offensive operation options to Brigade Combat Team (BCT) commanders. TLS BCT's information Superiority provides Indications and Warnings, Force Protection and Situational Awareness to influence the commander's decision cycle, improve targeting timeliness and accuracy, and provide the maneuver commander with electronic attack and offensive cyber warfare options to deny, degrade, disrupt, or otherwise manipulate the targeted force. TLS BCT employs technologically advanced systems with a modular open-system approach for multiple configurations that can be efficiently sustained and effectively upgraded to provide capabilities against changing near peer and emerging threats to address multi-domain capability gaps. TLS BCT enables integration, interoperability and force modernization with emerging capabilities in support of Multi-Domain Task Forces and Operational Needs Statements. TLS BCT will equip mounted formations with vehicles organic to their formations (SBCT- Stryker MEV DVAH1, ABCT- AMPV) and a manpack solution for IBCTs. TLS BCT - MDO Relevancy: Priority #2 Enablers - Supported/endorsed by Network Cross Functional Team (CFT), Assured Position Navigation and Timing (APNT)/Space CFT, Long Range Precision Fire (LRPF) CFT.

The total cost of the TLS Brigade Combat Team (BCT) Middle Tier of Acquisition effort is $269.5 million RDT&E from FY20 to FY25.

Justification:
FY 2025 total program amount of $14.763 million will fund technical support, vehicle integration and system development, new signal threat integration/signal relevancy, and test events.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Technical / Program Management	3.514	3.909	1.329
Description: Funds will provide for technical engineering and program management.			
FY 2024 Plans: FY 2024 TLS BCT technical engineering and program management support the development and completion of additional Stryker MEV DVAH1 prototypes, completion of ABCT- AMPV prototypes and continued development of manpack solution for IBCT.			
FY 2025 Plans: FY 2025 TLS BCT technical engineering and program management support the development and completion of ABCT- AMPV prototypes and continued development of manpack solution for IBCT.			
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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** FJ5 / *Terrestrial Layer System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Fiscal Year (FY) 2025 funding decrease of $2.580 million due to completion of the Stryker variant development.			
Title: Platform Integration and System Development ***Description:*** Development of System Level Prototypes and integration of TLS BCT mission equipment onto vehicle platforms that will enable TLS BCT platforms to match vehicle platforms organic to the unit. ***FY 2024 Plans:*** Continued development of System Level Prototypes and integration of TLS BCT mission equipment to Stryker, Manpack, AMPV and IBCT mounted variants. ***FY 2025 Plans:*** Complete development of System Level Prototypes and integration of TLS BCT mission equipment to Manpack and AMPV variants. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Fiscal Year (FY) 2025 funding Decrease of $51.908 million due to completion of Stryker variant.	48.666	53.500	1.592
Title: Test Events ***Description:*** System and Operational test events ***FY 2024 Plans:*** FY 2024 Continued testing of TLS BCT systems: Stryker MEV DVAH1 prototypes and Manpack solutions testing and refinement to achieve desired characteristics. ***FY 2025 Plans:*** Continues testing of TLS BCT systems: Stryker MEV DVAH1 prototypes, AMPV variant and Manpack solution testing to include, but not limited to Operational Assessments and Operational Demonstrations. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Fiscal Year (FY) 2025 funding Increase of $4.314 million due to increase operational tests of multiple variants.	5.548	5.786	10.100
Title: New signal threat integration and signal relevancy ***FY 2024 Plans:*** Continues, but is not limited to, development and evaluation of Next Generation SIGINT, EA and Cyber capabilities into the TLS BCT baseline to increase signal processing capabilities for near peer and emerging enemy threat signals in support of Multi-Domain Task Forces and Operational Needs Statements. ***FY 2025 Plans:***	4.418	1.800	1.742

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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** FJ5 / *Terrestrial Layer System*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Continues, development and evaluation of Next Generation SIGINT, EA and Cyber capabilities into the TLS BCT baseline to increase signal processing capabilities for near peer and emerging enemy threat signals. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Fiscal Year (FY) 2025 funding Decrease of $0.058 million in FY25 due to efficiencies gained from portfolio approach to software relevancy.			
Accomplishments/Planned Programs Subtotals	62.146	64.995	14.763

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
• B97610: *TERRESTRIAL LAYER SYSTEM BCT*	8.382	84.627	95.433	-	95.433	93.118	97.084	113.780	118.958	0.000	611.382

Remarks

D. Acquisition Strategy

The TLS BCT program will use a tailored competitive acquisition approach to rapidly deliver an integrated ground intelligence, electronic warfare and cyber capability on multiple platform types to align with maneuver forces. The TLS BCT program will leverage authorities including, but not limited to Middle Tier of Acquisition to accelerate delivery through rapid prototyping with rapid fielding authorities or a MCA Production 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 0304270A / *Electronic Warfare Development*	Project (Number/Name) FJ5 / *Terrestrial Layer 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
Technical / Program Management	Various	MITRE & MAG Aerospace : Aberdeen, MD	16.534	3.514	Feb 2023	3.909	Feb 2024	1.329	Feb 2025	-		1.329	0.000	25.286	-
		Subtotal	16.534	3.514		3.909		1.329		-		1.329	0.000	25.286	N/A

Remarks

Efforts include FFRDC support contract to continue developing and managing the Signals processing and compute environment as well as from competitive contract for Systems Engineering and Technical Assistance (SETA) support.

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 Integration and System Development	C/CPFF	Lockheed Martin : Syracuse, NY	67.003	48.666	Dec 2022	53.500	Dec 2023	1.592	Dec 2024	-		1.592	0.000	170.761	-
New signal threat integration and signal relevancy	C/CPFF	Lockheed Martin : Syracuse, NY	1.941	4.418	Jan 2023	1.800	Jan 2024	10.100	Jan 2025	-		10.100	0.000	18.259	-
		Subtotal	68.944	53.084		55.300		11.692		-		11.692	0.000	189.020	N/A

Remarks

Competitive OTA for development and integration. FY2024 funding supports continued system development and integration on at least, but not limited to the Stryker vehicle platform, the AMPV vehicle platform and the IBCT vehicle platform that will enable TLS fielded systems to match vehicle platforms organic to the fielded unit.

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 Events	IA	ATEC : APG, MD	3.251	5.548	Mar 2023	5.786	Mar 2024	1.742	Feb 2025	-		1.742	0.000	16.327	-
		Subtotal	3.251	5.548		5.786		1.742		-		1.742	0.000	16.327	N/A

Remarks

FY2024 Test & Evaluation efforts will be accomplished via a combination of various support contracts and direct Government support.

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 0304270A / *Electronic Warfare Development*	Project (Number/Name) FJ5 / *Terrestrial Layer 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	88.729	62.146		64.995		14.763		-		14.763	0.000	230.633	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 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** FJ5 / *Terrestrial Layer System*

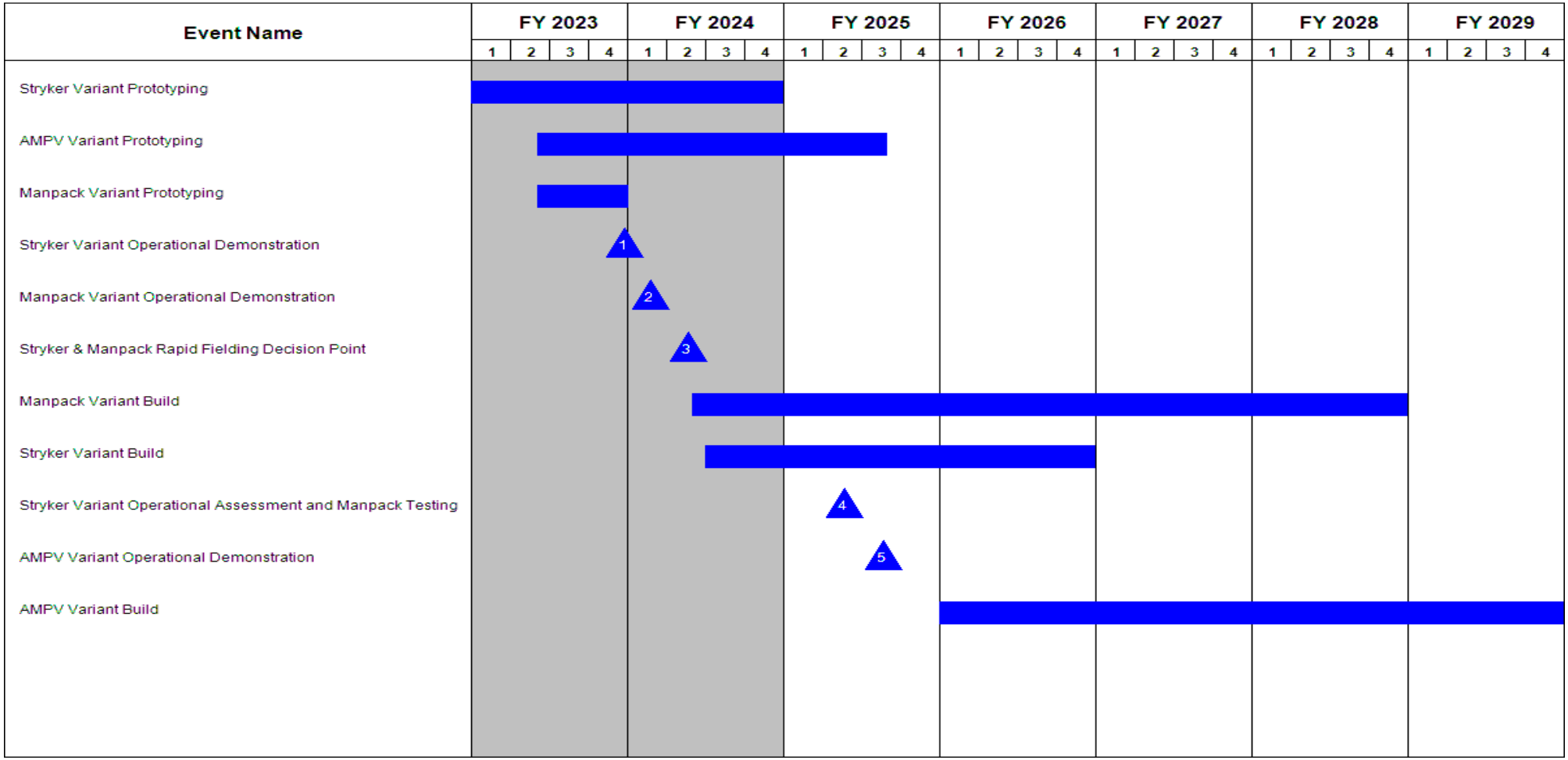


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0304270A / *Electronic Warfare Development*	**Project (Number/Name)** FJ5 / *Terrestrial Layer System*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Stryker Variant Prototyping	3	2020	4	2024
AMPV Variant Prototyping	2	2023	3	2025
Manpack Variant Prototyping	2	2023	4	2023
Stryker Variant Operational Demonstration	4	2023	4	2023
Manpack Variant Operational Demonstration	1	2024	1	2024
Stryker & Manpack Rapid Fielding Decision Point	2	2024	2	2024
Manpack Variant Build	2	2024	4	2028
Stryker Variant Build	3	2024	4	2026
Stryker Variant Operational Assessment and Manpack Testing	2	2025	2	2025
AMPV Variant Operational Demonstration	3	2025	3	2025
AMPV Variant Build	1	2026	4	2029