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

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>
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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	-	134.719	53.143	127.870	-	127.870	186.027	164.255	164.446	124.539	Continuing	Continuing
DH3: <i>Air Launched Effects (ALE)</i>	-	-	-	97.369	-	97.369	185.526	163.754	163.945	124.038	0.000	734.632
EX8: <i>Future Unmanned Aircraft System (FUAS)</i>	-	134.719	53.143	30.501	-	30.501	0.501	0.501	0.501	0.501	Continuing	Continuing

Note
In Fiscal Year (FY) 2025, Project DH3 / Air Launched Effects (ALE) is a new effort realigned within PE 0604113A / Future Tactical Unmanned Aircraft System (FTUAS). Funding realigned from project EX8 / Future Unmanned Aircraft System (FUAS).

A. Mission Description and Budget Item Justification

The Future Uncrewed Aircraft System (FUAS) is a critical system in the cross-domain capabilities concept that will employ multi-domain operation (MDO) capabilities at all echelons and allow ground-based forces to project power from land into other domains to defeat highly capable enemies, secure terrain, and consolidate gains.

FUAS encompasses an array of capabilities from platoon Soldiers to Division Commanders. The Army Requirements Oversight Council (AROC) approved the FUAS Initial Capabilities Document (ICD) on 6 Mar 2019. The FUAS ICD includes requirements for the Future Tactical Uncrewed Aircraft Systems (FTUAS) Program, Launched Effects (LE), and Scalable Control Interface (SCI). Current FTUAS development efforts are based on requirements from the AROC approved Abbreviated Capability Development Document (A-CDD) signed 12 August 2021. Manned, optionally-manned, and uncrewed systems will penetrate defense-in-depth environments by employing LE with teaming and swarming effects to detect, decoy, jam radar and communications, conduct cyber-attack, spoof and jam Global Positioning System (GPS), and kinetic engagement.

The Future Vertical Lift Cross Functional Team (FVL CFT) FUAS line of effort is comprised of multiple components, including the FTUAS and LE. FTUAS replaces the RQ-7Bv2 Shadow systems in the Brigade Combat Teams (BCT) with transformational capabilities. FTUAS provides the BCT commander a runway independent, expeditionary reconnaissance, surveillance, and target acquisition (RSTA) capability through vertical takeoff and landing (VTOL) and on the move (OTM) command and control. FTUAS enhances survivability in a multi-domain operations (MDO) environment through assured position, navigation, and timing (APNT) solutions; Type-1 encrypted datalinks; and a modular open systems approach (MOSA) that facilitates system upgrades at the pace of technology. FTUAS mitigates operation and support costs through organic sustainment capability. Additionally, FTUAS provides enhanced transportability, rapid deployability, expeditionary maneuver, and mobility for adaptive and agile operations. Based on an A-CDD update scheduled for Army Requirements Oversight Council validation 2QFY24, one FTUAS system consists of 6 air vehicles and payloads, 6 control stations, and ancillary equipment - representing a significantly reduced logistics footprint compared to the Shadow system. The aircraft subsystem includes the airframe, propulsion, avionics, communications, navigation, and software systems; aircraft-specific ground support equipment including power generation, transportation, or command and control equipment; aircraft software. The system also requires engineering, logistics, and programmatic support.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>
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Launched Effects (LE) will provide Army formations the ability to retain their asymmetric advantage in reach, protection, and lethality in the execution of Joint All-Domain Operations (JADO). The expanded lethal and non-lethal airborne capabilities of LE will provide more seamless real-time integration of multiple warfighting functions in the execution of joint attack, reconnaissance, and security operations that create multiple dilemmas for the enemy. Current effort based on approved May 2020 A-CDD (updated LE A-CDD pending approval in 2QFY24).

The total cost of the LE Middle Tier of Acquisition effort is \$80.1 million RDT&E from FY22 to FY24. The remainder of the LE MTA is fully funded across the Future Years Defense Program.

The FTUAS Program will continue to capture funding/reporting on the current program element. The total cost of the FTUAS Middle Tier of Acquisition effort is \$137.7 million RDT&E from FY22 to FY25. The remainder of the FTUAS MTA is fully funded across the Future Years Defense Program.

Through FY24, LE shared a Program Element (PE) with FTUAS (0604113A/DH3). Beginning in FY25, LE established its own PE (0604113A/EX8) to capture LE funding and reporting.

Justification:
Fiscal Year (FY) 2025 RDT&E PE 0604113A Base funding of \$97.369 million will be utilized to support LE-Short Range and LE-Medium Range Middle Tier of Acquisition (MTA) rapid prototyping efforts.
Fiscal Year (FY) 2025 FTUAS RDT&E PE 0604113A Base funding of \$30.501 million will be utilized for FTUAS SEPM, System Integration, and Test activities.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	134.719	53.143	41.961	-	41.961
Current President's Budget	134.719	53.143	127.870	-	127.870
Total Adjustments	0.000	0.000	85.909	-	85.909
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	85.909	-	85.909

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

Project: EX8: *Future Unmanned Aircraft System (FUAS)*

Congressional Add: *Program Increase: Acceleration of Future Tactical Unmanned Aircraft System (FTUAS) Increment 1*

	FY 2023	FY 2024
	16.000	-

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

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>
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Congressional Add Details (\$ in Millions, and Includes General Reductions)

	FY 2023	FY 2024
Congressional Add: <i>Program Increase: Protected Bandwidth Efficient Common DataLink (BE-CDL) Mode 303</i>	15.000	-
Congressional Add: <i>Program Increase: Micro-Integrated Transponder With Embedded Crypto</i>	8.000	-
Congressional Add Subtotals for Project: EX8	39.000	-
Congressional Add Totals for all Projects	39.000	-

Change Summary Explanation

FY2025 funding increase from the previous PB to the current PB reflects Middle-Tier Acquisition execution of additional Launched Effects prototyping and updated strategy for Launched Effects requirements documentation.

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) DH3 / <i>Air Launched Effects (ALE)</i>
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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
DH3: <i>Air Launched Effects (ALE)</i>	-	-	-	97.369	-	97.369	185.526	163.754	163.945	124.038	0.000	734.632
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In Fiscal Year (FY) 2025, Project DH3 / Air Launched Effects (ALE) is a new effort realigned within PE 0604113A / Future Tactical Unmanned Aircraft System (FTUAS). Funding realigned from project EX8 / Future Unmanned Aircraft System (FUAS).

A. Mission Description and Budget Item Justification

Launched Effects (LE) will provide Army formations the ability to retain their asymmetric advantage in reach, protection, and lethality in the execution of Joint All-Domain Operations (JADO). The expanded lethal and non-lethal airborne capabilities of LE will provide more seamless real-time integration of multiple warfighting functions in the execution of joint attack, reconnaissance, and security operations that create multiple dilemmas for the enemy. Updated strategy based on updated Launched Effects requirements document pending approval in 2QFY24.

Through FY24, LE shared a Program Element (PE) with FTUAS (0604113A/EX8). Beginning in FY25, LE established its own PE (0604113A/DH3) to capture LE funding and reporting.

Justification:

Fiscal Year (FY) 2025 RDT&E PE 0604113A Base funding of \$97.369 million will be utilized to support LE-Short Range and LE-Medium Range Middle Tier of Acquisition (MTA) rapid prototyping efforts.

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

	FY 2023	FY 2024	FY 2025
Title: LE System Development	-	-	97.369
Description: Launched Effects (LE) will provide Army formations the ability to retain their asymmetric advantage in reach, protection, and lethality in the execution of Joint All-Domain Operations (JADO). The expanded lethal and non-lethal airborne capabilities of LE will provide more seamless real-time integration of multiple warfighting functions in the execution of joint attack, reconnaissance, and security operations that create multiple dilemmas for the enemy. Updated strategy based on updated Launched Effects requirements document pending approval in 2QFY24.			
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) DH3 / <i>Air Launched Effects (ALE)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY2025 RDTE funds will be utilized to execute Launch Effects System Development to include system integration, system test and evaluation, systems engineering and program management and transportation.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase in funding is for Middle-Tier Acquisition execution of additional Launched Effects prototyping to address multiple size variants and payload capabilities.			
Accomplishments/Planned Programs Subtotals	-	-	97.369

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
• A00511: <i>Air Launched Effects</i>	-	-	20.040	-	20.040	20.040	20.040	20.040	95.961	0.000	176.121

Remarks

D. Acquisition Strategy

The LE rapid prototyping effort is comprised of prototype development activities for the air vehicle, payloads, and mission system architecture as well as supporting experiments, simulations, and demonstrations conducted in parallel and/or sequential timelines which facilitate rapid prototyping to field mature, high Technological Readiness Level (TRL) Commercial Off The Shelf (COTS)/Non-Developmental Items (NDI) technologies and capabilities as a residual capability, while Science & Technology (S&T) efforts continue the maturation of emerging technologies required to fully realize required capabilities.

PM UAS is currently executing Rapid Prototyping of the LE-Medium Range (LE-MR) under the Middle Tier of Acquisition (MTA) pathway and is on track to transition to a Rapid Fielding MTA in FY2025. LE-MR will continue rapid prototyping until FY27 to integrate additional capabilities.

In FY2025, PM UAS will initiate Rapid Prototyping of the LE-Short Range (LE-SR) under the MTA pathway. This rapid prototyping effort involves the competitive selection of mature technologies to support two Lines of Effort (LOEs). LOE 1 focuses on providing an initial capability to Army air and ground units. LOE 2 focuses on integrating additional capabilities.

These efforts align with the LE strategy to acquire capability through an incremental approach that allows rapid prototyping and procurement of available capabilities while continuing to transition emerging S&T efforts.

The LE contracting strategy is accomplished through multiple Other Transaction Authority (OTA) awards to assess and develop vendor technologies to rapidly prototype LE air vehicle, payloads and system architecture.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 4				PE 0604113A / Future Tactical Unmanned Aircraft System (FTUAS)				DH3 / Air Launched Effects (ALE)							
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering and Program Management	Option/TBD	TBD : TBD	-	-		-		6.148	Mar 2025	-		6.148	0.000	6.148	Continuing
Subtotal			-	-		-		6.148		-		6.148	0.000	6.148	N/A
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Launch Effects Development & Integration	C/TBD	TBD : TBD	-	-		-		82.367	Mar 2025	-		82.367	0.000	82.367	Continuing
Subtotal			-	-		-		82.367		-		82.367	0.000	82.367	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Test and Evaluation	Option/TBD	TBD : TBD	-	-		-		8.854	Mar 2025	-		8.854	0.000	8.854	Continuing
Subtotal			-	-		-		8.854		-		8.854	0.000	8.854	N/A
Project Cost Totals			-	-		-		97.369		-		97.369	0.000	97.369	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) DH3 / <i>Air Launched Effects (ALE)</i>

Event Name	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
LE-Medium Range MTA Rapid Prototyping	[Blue bar spanning FY 2023 Q4 to FY 2027 Q3]																											
A-CDD	[Grey bar spanning FY 2023 Q1 to FY 2024 Q4]																											
LE Medium Range MTA Rapid Fielding Decision Point	[Blue triangle 1 in FY 2024 Q2]																											
LE Medium Range MTA Rapid Fielding	[Blue triangle 2 in FY 2025 Q1]																											
LE-Short Range MTA Rapid Prototyping Decision Point	[Blue triangle 3 in FY 2025 Q1]																											
LE-Short Range MTA Rapid Prototyping	[Blue bar spanning FY 2025 Q2 to FY 2028 Q3]																											
LE-Short Range MTA Rapid Fielding Decision Point	[Blue triangle 4 in FY 2026 Q4]																											
LE-Short Range MTA Rapid Fielding	[Blue bar spanning FY 2026 Q3 to FY 2029 Q3]																											
LE-Long Range MTA Rapid Prototyping Decision Point	[Blue triangle 5 in FY 2028 Q3]																											
LE-Long Range MTA Rapid Prototyping	[Blue bar spanning FY 2028 Q4 to FY 2029 Q4]																											

Note
A dedicated Program Element 0604113A / Future Tactical Unmanned Aircraft System (FTUAS) Project: DH3 has been identified to capture LE funding/reporting. All funding prior to FY25 will be captured jointly on Program Element: 0604113A Project: EX8

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) DH3 / <i>Air Launched Effects (ALE)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
LE-Medium Range MTA Rapid Prototyping	2	2022	1	2028
A-CDD	2	2024	2	2024
LE Medium Range MTA Rapid Fielding Decision Point	2	2025	2	2025
LE Medium Range MTA Rapid Fielding	2	2025	1	2030
LE-Short Range MTA Rapid Prototyping Decision Point	2	2025	2	2025
LE-Short Range MTA Rapid Prototyping	2	2025	1	2030
LE-Short Range MTA Rapid Fielding Decision Point	4	2026	4	2026
LE-Short Range MTA Rapid Fielding	4	2026	3	2031
LE-Long Range MTA Rapid Prototyping Decision Point	1	2028	1	2028
LE-Long Range MTA Rapid Prototyping	1	2028	4	2032

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>				Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EX8: <i>Future Unmanned Aircraft System (FUAS)</i>	-	134.719	53.143	30.501	-	30.501	0.501	0.501	0.501	0.501	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is shared by Future Tactical Unmanned Aircraft System (FTUAS) and Launched Effects (LE) Middle Tier of Acquisition Rapid Prototyping (MTA RP) execution.

FTUAS development efforts are based on requirements from the AROC approved Abbreviated Capability Development Document (A-CDD) signed 12 August 2021.

The FTUAS will replace the RQ-7Bv2 Shadow systems in the Brigade Combat Teams (BCTs). Key capabilities of the FTUAS include vertical take-off and landing (VTOL), runway independence, enhanced transportability, rapid deployability, expeditionary maneuver, and mobility for adaptive and agile operations. Based on an A-CDD update scheduled for Army Requirements Oversight Council validation 2QFY24, one FTUAS system will consist of 6 air vehicles and 6 payloads, 6 control stations, and ancillary equipment - representing a significantly reduced logistics footprint than the Shadow system. The aircraft subsystem will include the airframe, propulsion, avionics, communications, navigation, and software systems; aircraft-specific ground support equipment including power generation, transportation, or command and control equipment; aircraft software; and required engineering, logistics, programmatic support.

With the ability to either air or ground launch, LE extends tactical and operational reach, lethality, and protection to the advanced team as an attributable or optionally recoverable aerial capability that detects, identifies, locates, and reports threats; represents a credible decoy; disrupts threat communication, targeting and acquisition systems; and delivers lethal and non-lethal effects against those threats across cross-domain capabilities. Current LE efforts are based on requirements from AROC approved A-CDD signed 28 May 2020.

Beginning in FY2025, a dedicated Program Element 0604113A / Future Tactical Unmanned Aircraft System (FTUAS) Project: DH3 has been identified to capture LE funding/reporting. All funding prior to this will be captured jointly on this PE/Project.

FTUAS will continue to capture funding/reporting on the current program element. The total cost of the FTUAS Middle Tier of Acquisition effort is \$137.7 million RDT&E from FY22 to FY25. The remainder of the FTUAS MTA is fully funded across the Future Years Defense Program.

The total cost of the LE Middle Tier of Acquisition effort is \$80.1 million RDT&E from FY22 to FY24. The remainder of the LE MTA is fully funded across the Future Years Defense Program.

Justification: Fiscal Year (FY) 2025 FTUAS RDT&E PE 0604113A Base funding of \$30.501 million will be utilized for FTUAS SEPM, System Integration, and Test activities.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Title: Air Launched Effects (ALE) Systems Integration</p> <p>Description: LE Systems Integration of the components to address the requirements from the approved A-CDD dated May 2020.</p> <p>FY 2024 Plans: Continue to fund the ALE Small Prototype (Increment 1A) integration of proposed material solution approaches integration of prototype ALE onto a launch platform(s), fund required testing in support of platform integration, and fund additional activities in support of ALE requirements refinement and revision. Fund capstone User Evaluation to evaluate the ALE-Prototype.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: 0604113A /EX8 Future Unmanned Aircraft System (FUAS) funding allocated for ALE is decreased in FY25 due to 0604113A /DH3 Air Launched Effects (ALE) being established and these funds being allocated to the new line.</p>		24.860	19.439	-
<p>Title: Air Launched Effects (ALE) Systems Engineering/Program Management</p> <p>Description: SEPM</p> <p>FY 2024 Plans: Funding for SEPM aligns with current ALE strategy</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: 0604113A /EX8 Future Unmanned Aircraft System (FUAS) funding allocated for ALE is decreased in FY25 due to 0604113A /DH3 Air Launched Effects (ALE) being established and these funds being allocated to the new line.</p>		5.617	5.528	-
<p>Title: Future Tactical Unmanned Aircraft System (FTUAS) System Engineering/Program Management</p> <p>Description: SEPM</p> <p>FY 2024 Plans: Align to FTUAS acquisition strategy.</p> <p>FY 2025 Plans: Funding for SEPM aligns with current FTUAS strategy.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Rapid Prototyping effort completes in FY25 as the program transitions to production.</p>		4.283	2.818	2.440
<p>Title: Future Tactical Unmanned Aircraft System (FTUAS) System Integration</p>		60.959	10.808	24.585

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: The FTUAS is a runway independent Group 3 uncrewed aircraft system that provides Brigade Combat Teams with improved reconnaissance, surveillance and target acquisition capability.</p> <p>FY 2024 Plans: Continue to fund competitive prototypes, development / integration, and test of required FTUAS systems.</p> <p>FY 2025 Plans: Continue funding developmental test of FTUAS systems, integrate test findings, and provide manufacturing representative systems for unit operational assessment.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Program conducts developmental testing FY24 into FY25. In FY25, system integration effort increases as the program addresses test findings and conducts integration to provide manufacturing representative systems for unit operational assessment.</p>			
<p>Title: Future Tactical Unmanned Aircraft System (FTUAS) Test and Evaluation</p> <p>FY 2024 Plans: FTUAS will conduct developmental and qualification testing for the Increment 2 system.</p> <p>FY 2025 Plans: Continue conducting developmental and qualification testing for FTUAS.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Developmental testing begins in FY24 and extends into FY25 as it completes. The Rapid Prototyping effort completes in FY25 as the program transitions to production.</p>	-	14.550	3.476
Accomplishments/Planned Programs Subtotals	95.719	53.143	30.501

	FY 2023	FY 2024
<p>Congressional Add: Program Increase: Acceleration of Future Tactical Unmanned Aircraft System (FTUAS) Increment 1</p> <p>FY 2023 Accomplishments: Acceleration of Future Tactical Unmanned Aircraft Systems (FTUAS) Increment 1 \$16M funds above threshold reprogrammed to Low Altitude Stalking and Strike Ordnance Directed Requirement</p>	16.000	-
<p>Congressional Add: Program Increase: Protected Bandwidth Efficient Common DataLink (BE-CDL) Mode 303</p>	15.000	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>

	FY 2023	FY 2024
FY 2023 Accomplishments: Award Protected Bandwidth Efficient Common DataLink (BE-CDL) Mode 303 Scope.		
Congressional Add: Program Increase: Micro-Integrated Transponder With Embedded Crypto	8.000	-
FY 2023 Accomplishments: Award Micro-Integrated Transponder With Embedded Crypto Scope.		
Congressional Adds Subtotals	39.000	-

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

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• A01311: <i>Future Tactical Unmanned Aircraft System (TUAS)</i>	-	53.453	129.019	-	129.019	147.695	147.829	124.672	125.920	0.000	728.588

Remarks

Program Element A01311 Future Tactical Unmanned Aircraft System (FTUAS) is an Aircraft Procurement line the Army will utilize to procure FTUAS systems and mature material to maintain program schedule.

D. Acquisition Strategy

FTUAS is being developed under a Middle Tier Acquisition (MTA) effort in accordance with the FTUAS Acquisition Decision Memorandum (ADM) dated 22 August 2022. The intent of the FTUAS MTA-RP effort is to meet the full complement of the August 2021 A-CDD requirements as the Program of Record. This multi-year development effort, commenced in 4QFY22 upon award to five vendors. It progresses through major design reviews, including a Systems Requirements Review (SRR), Preliminary Design Review (PDR), Critical Design Review (CDR), and Production Readiness Review (PRR); additionally, all developmental testing is conducted under the Rapid Prototyping effort. Prototyping completion and First Unit Issued (FUI) are scheduled for FY25.

FTUAS will request follow-on acquisition pathway decision authority in FY25. FTUAS will use FY24 APA to acquire required material in advance of a production decision so the program can produce fieldable aircraft on the program schedule. However, if a mark of the APA is upheld, the fielding schedule moves right by at least 12 months.

The FTUAS modular open systems approach (MOSA) requires vendor design compatibility with government and commercial interfaces and standards, allowing rapid integration of emergent technologies. MOSA provides for continual upgrading of FTUAS with performance, survivability, and sustainment technologies - pacing the multi-domain operations (MDO) threat.

Sustainment of the program includes three years of Interim Contractor Logistics Support (ICS) transitioning to organic Army capabilities.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 4				PE 0604113A / Future Tactical Unmanned Aircraft System (FTUAS)				EX8 / Future Unmanned Aircraft System (FUAS)							
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering and Program Management (SEPM)	Various	PM TUAS : Redstone Arsenal	9.343	4.283	Mar 2023	2.000	Feb 2024	2.440	Mar 2025	-		2.440	Continuing	Continuing	-
Subtotal			9.343	4.283		2.000		2.440		-		2.440	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Air Launched Effects (ALE) Systems Integration	Various	PM TUAS : Redstone Arsenal	62.100	30.477	Nov 2022	24.967	Mar 2024	-		-		-	Continuing	Continuing	-
Future Tactical Unmanned Aircraft System (FTUAS)	Various	PM TUAS : Redstone Arsenal	84.989	99.959	Jun 2023	11.626	Feb 2024	24.585	Dec 2024	-		24.585	Continuing	Continuing	-
Subtotal			147.089	130.436		36.593		24.585		-		24.585	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	TBD	AMTC, ATEC, RTC, and ACC : Redstone	-	-		14.550	Dec 2023	3.476	Dec 2024	-		3.476	Continuing	Continuing	-
Subtotal			-	-		14.550		3.476		-		3.476	Continuing	Continuing	N/A
Project Cost Totals			156.432	134.719		53.143		30.501		-		30.501	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>

Event Name	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
FTUAS Competitive Prototyping	[Redacted]																											
	FTUAS CP																											
FTUAS Developmental Test & Evaluation					[Redacted]																							
					FTUAS DT																							
FTUAS Acquisition Pathway Decision									2	FTUAS Pathway Decision																		
FTUAS Production									[Redacted]																			
													FTUAS Production															
FTUAS Operational Assessment									[Redacted]																			
													FTUAS OA															
FTUAS Fielding													[Redacted]															
																	FTUAS Fielding											
FTUAS Operational Demo									1	FTUAS Operational Demo																		

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FTUAS Competitive Prototyping	1	2023	2	2025
FTUAS Developmental Test & Evaluation	2	2024	2	2025
FTUAS Acquisition Pathway Decision	3	2025	3	2025
FTUAS Production	3	2025	4	2034
FTUAS Operational Assessment	4	2025	1	2026
FTUAS Fielding	4	2026	4	2035
FTUAS Operational Demo	2	2025	2	2025