Exhibit R-2, RDT&E Budget Item Justification: PB 2025 United States Special Operations Command	Date: March 2024
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 2: *Applied Research*	**R-1 Program Element (Number/Name)** PE 1160401BB / *SOF Technology Development*

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	722.278	60.762	52.287	50.183	-	50.183	50.427	53.274	54.269	55.284	Continuing	Continuing
S100: *SOF Technology Development*	722.278	60.762	52.287	50.183	-	50.183	50.427	53.274	54.269	55.284	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element enables the United States Special Operations Command (USSOCOM) to conduct studies and develop laboratory prototypes for applied research and advanced technology development, as well as leverage other organizations' technology projects. Applying small incremental amounts of investments to the Department of Defense (DoD), other government agencies, and commercial organizations allows the USSOCOM to influence the direction of technology development or the schedule against which it is being pursued, and to acquire disruptive solutions and emerging technologies for Special Operations Forces (SOF). This project provides an investment strategy for the USSOCOM to link technology opportunities with capability deficiencies, capability objectives, technology thrust areas, human endurance and sensory performance, and technology development objectives. This investment strategy is aligned to establish future SOF capabilities in support of Joint Warfighting Concepts. This PE received Congressional Adds in FY 2023 for signature management improvements ($4.500 million) and assessment of commercial system ($5.235 million), and Congressional Add funding reprogrammed from Defense Health Agency for Special Operations Traumatic Brain Injury Pilot Program ($4.000 million).

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	58.909	52.287	49.101	-	49.101
Current President's Budget	60.762	52.287	50.183	-	50.183
Total Adjustments	1.853	0.000	1.082	-	1.082
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	4.000	-			
• SBIR/STTR Transfer	-2.147	-			
• Adjustments to Budget Year	-	-	1.082	-	1.082

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
Project: S100: *SOF Technology Development*		
Congressional Add: *Signature Management Improvements*	4.336	-
Congressional Add: *Assessment of Commercial Systems*	5.043	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 United States Special Operations Command	Date: March 2024
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 2: *Applied Research*	**R-1 Program Element (Number/Name)** PE 1160401BB / *SOF Technology Development*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
Congressional Add: *Traumatic Brain Injury Pilot Program*	4.000	-
Congressional Add Subtotals for Project: S100	13.379	-
Congressional Add Totals for all Projects	13.379	-

Change Summary Explanation

Funding:

FY 2023: Net increase of $1.853 million. $4.000 million increase, reprogrammed from Defense Health Agency for Special Operations Traumatic Brain Injury Pilot Program. $2.147 million decrease, SBIR/STTR.

FY 2024: None.

FY 2025: Increase of $1.082 million is in line with the USSOCOM's modernization efforts and guidance to increase funding in Applied Research in the areas of collaborative processes, edge computing, data experimentation, and data fusion, as well as continued advancements in information operations and electronic warfare technologies. Funding enables four to five additional analytically focused efforts with small and or non-traditional businesses who are exploring truly disruptive technologies.

Exhibit R-2A, RDT&E Project Justification: PB 2025 United States Special Operations Command			Date: March 2024
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 1160401BB / *SOF Technology Development*	Project (Number/Name) S100 / *SOF Technology Development*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
S100: *SOF Technology Development*	722.278	60.762	52.287	50.183	-	50.183	50.427	53.274	54.269	55.284	Continuing	Continuing

A. Mission Description and Budget Item Justification

This project conducts studies and develops laboratory prototypes for applied research and advanced technology developments and leverages other organizations' technology projects. Small incremental co-investments with the Department of Defense (DoD), other government agencies, and commercial organizations allow the United States Special Operations Command (USSOCOM) to influence the schedule and direction of technology developments, emerging technologies, and capabilities for Special Operations Forces (SOF), with significant economies of investment. This USSOCOM investment strategy is used to link technology opportunities with capability deficiencies, capability objectives, technology thrust areas, and technology objectives through key stakeholder relationships with the DoD and government technology developers. Technology development needs in these areas may be advertised to industry and government research and development agencies via agency announcements and calls for white papers.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: SOF Technology Development	43.372	48.027	45.838
Description: This project conducts studies and develops laboratory prototypes for applied research and advanced technology developments and leverages other organizations' technology projects. This project will continue to exploit and integrate emerging technologies to enable SOF to conduct assigned military responsibilities and expand in support of integrated deterrence. Increases focus on scalable and precision effects, particularly effects that are non-kinetic; capitalizes on commercial and government discoveries in data and analytics; explores future emplacement and access opportunities, sensor and sensor fusion technology, and biotechnologies and human performance capabilities. This project also funds experimentation and concept development to equip the future SOF warfighter. Based upon agreed technology maturity metrics, transfer successful projects into advanced technology development and/or programs of record.			
FY 2024 Plans: Continue ongoing technology development projects in areas such as, but not limited to: enabling power technologies; electromagnetic spectrum; data analytics; signature reduction technologies; high data-rate throughput; and advances in lightweight materials. Advance technologies for combat medical equipment, biotechnologies, tactics, human performance, sensors, information sources, and processing improvements, improve human-machine interfaces and displays, identify SO-peculiar (SO-p) specific machine learning/artificial intelligence, and secure communications. Based upon agreed technology			

Exhibit R-2A, RDT&E Project Justification: PB 2025 United States Special Operations Command		Date: March 2024
Appropriation/Budget Activity 0400 / 2	**R-1 Program Element (Number/Name)** PE 1160401BB / *SOF Technology Development*	**Project (Number/Name)** S100 / *SOF Technology Development*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
maturity metrics, transfer successful projects into programs of record. Continue the integration of critical technologies focused on providing the dismounted special operator leap-ahead capabilities via innovative collaborative processes. ***FY 2025 Plans:*** Continues ongoing technology development projects in areas such as, but not limited to: advances in lightweight materials, technologies for combat medical equipment, human performance, sensors, information to create effects, improved human-machine interfaces and displays, capability specific machine learning/artificial intelligence algorithms, and secure communications. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease of $2.189 million is due to funding made available to support critical emergent command requirements.			
Title: Classified Project ***Description:*** Classified Project (provided under separate cover). ***FY 2024 Plans:*** Details provided under separate cover. ***FY 2025 Plans:*** Details provided under separate cover. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Details for increase of $0.085 million will be provided under separate cover. This project is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.	4.011	4.260	4.345
Accomplishments/Planned Programs Subtotals	47.383	52.287	50.183

	FY 2023	FY 2024
Congressional Add: Signature Management Improvements ***FY 2023 Accomplishments:*** This effort funded the fabrication of initial small uncrewed aerial systems (sUAS) prototypes based on design work completed under an FY 2022 Congressional Add. The sUAS will be a purpose-built, government-owned uncrewed platform with the payload, range, speed and survivability required by the USSOCOM operators to complete their mission.	4.336	-
Congressional Add: Assessment of Commercial Systems ***FY 2023 Accomplishments:*** Identified and characterized capability enablers such as digital twins, synthetic virtual and constructive simulations, range and operator sensor instrumentation, secure network and “quantum-	5.043	-

Exhibit R-2A, RDT&E Project Justification: PB 2025 United States Special Operations Command		Date: March 2024
Appropriation/Budget Activity 0400 / 2	**R-1 Program Element (Number/Name)** PE 1160401BB / *SOF Technology Development*	**Project (Number/Name)** S100 / *SOF Technology Development*

	FY 2023	FY 2024
safe" protocols and Internet of Things device integration and tracking for potential inclusion and incorporation into Counter Access Systems and Platform Evaluation Range (CASPER).		
Congressional Add: Traumatic Brain Injury Pilot Program ***FY 2023 Accomplishments:*** This effort funded a study which will evaluate short-term and long-term clinical outcomes in Special Operations Forces in an intensive one-week holistic evaluation program that offers a comprehensive assessment and world class treatment of post-traumatic stress, traumatic brain injury, and other brain injuries.	4.000	-
Congressional Adds Subtotals	13.379	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A