Department of Defense Fiscal Year (FY) 2024 Budget Estimates

March 2023



Defense Logistics Agency

Defense-Wide Justification Book Volume 5 of 5

Research, Development, Test & Evaluation, Defense-Wide

THIS PAGE INTENTIONALLY LEFT BLANK

Defense Logistics Agency • Budget Estimates FY 2024 • RDT&E Program

Table of Volumes

Defense Advanced Research Projects Agency Vo	Jume 1
Missile Defense Agency Vo	
Office of the Secretary Of Defense	lume 3
Creating Helpful Incentives To Produce Semi-Conductors (CHIPS) for AmericaVo	olume 3
Chemical and Biological Defense ProgramVo	
Defense Contract Audit AgencyVo	lume 5
Defense Contract Management Agency Vo	
Defense Counterintelligence and Security AgencyVo	olume 5
Defense Information Systems AgencyVo	lume 5
Defense Logistics AgencyVo	
Defense Security Cooperation AgencyVo	lume 5
Defense Technical Information CenterVo	lume 5
Defense Threat Reduction AgencyVo	
DoD Human Resources Activity	lume 5
Operational Test and Evaluation, Defense	
Space Development Agency	lume 5

Defense Logistics Agency • Budget Estimates FY 2024 • RDT&E Program

The Joint Staff	Volume 5	
United States Cyber Command	Volume 5	
United States Special Operations Command	.Volume 5	
Washington Headquarters Services	. Volume 5	

Defense Logistics Agency • Budget Estimates FY 2024 • RDT&E Program

Volume 5 Table of Contents

Comptroller Exhibit R-1	Volume 5 - v
Program Element Table of Contents (by Budget Activity then Line Item Number)	Volume 5 - xiii
Program Element Table of Contents (Alphabetically by Program Element Title)	Volume 5 - xv
Exhibit R-2s	Volume 5 - 1

THIS PAGE INTENTIONALLY LEFT BLANK

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

FY 2023 Less FY 2023 FY 2022 Supplementals Supplementals FY 2023 Total FY 2024 Enactment Appropriation Actuals Enactment Enactment Request Research, Development, Test and Evaluation, Defense-Wide 350,904 352,072 352,072 245,474 Total Research, Development, Test, & Evaluation 350,904 352,072 352,072 245,474

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

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

		FY 2023 Less	FY 2023		
	FY 2022	Supplementals	Supplementals	FY 2023 Total	FY 2024
	Actuals	Enactment	Enactment	Enactment	Request
Summary Recap of Budget Activities					
Advanced Technology Development	295,724	313,762		313,762	207,691
System Development & Demonstration	31,790	23,171		23,171	32,629
Management Support	11,500				
Operational Systems Development	11,890	15,139		15,139	5,154
Total Research, Development, Test, & Evaluation	350,904	352,072		352,072	245,474
Summary Recap of FYDP Programs					
Research and Development	339,014	336,933		336,933	240,320
Central Supply and Maintenance	11,890	15,139		15,139	5,154
Total Research, Development, Test, & Evaluation	350,904	352,072		352,072	245,474

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

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

FY 2023 Less FY 2023 FY 2022 Supplementals Supplementals FY 2023 Total FY 2024 Actuals Enactment Enactment Enactment Request Summary Recap of Budget Activities Advanced Technology Development 295,724 313,762 313,762 207,691 System Development & Demonstration 31,790 23,171 23,171 32,629 Management Support 11,500 Operational Systems Development 11,890 15,139 15,139 5,154 350,904 352,072 352,072 245,474 Total Research, Development, Test, & Evaluation Summary Recap of FYDP Programs 339,014 240,320 Research and Development 336,933 336,933 Central Supply and Maintenance 11,890 15,139 15,139 5,154 Total Research, Development, Test, & Evaluation 350,904 352,072 352,072 245,474

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

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

Appropriation	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment	FY 2023 Total Enactment	FY 2024 Request
Defense Logistics Agency	350,904	352,072		352,072	245,474
Total Research, Development, Test and Evaluation, Defense-Wide	350,904	352,072		352,072	245,474

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

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

Appropriation: 0400D Research, Development, Test and Evaluation, Defense-Wide

Line <u>No</u>	Program Element <u>Number</u>	Item	Act	<u>Se</u>	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
55	06036805	Manufacturing Technology Program	03	U	80,924	92,766		92,766
56	0603712S	Generic Logistics R&D Technology Demonstrations	03	U	12,325	13,663		13,663
58	0603720S	Microelectronics Technology Development and Support	03	U	202,475	207,333		207,333
	Advanced Technology Development				295,724	313,762		313,762
139	0605070S	DOD Enterprise Systems Development and Demonstration	05	U	654			
140	06050805	Defense Agency Initiatives (DAI) - Financial System	05	U	31,136	23,171		23,171
	System Deve	lopment & Demonstration			31,790	23,171		23,171
168	0605502S	Small Business Innovative Research	06	U	11,500			
	Management	Support			11,500			
263	0708012S	Pacific Disaster Centers	07	U	5,733	11,875		11,875
264	0708047S	Defense Property Accountability System	07	U	6,157	3,264		3,264
	Operational	Systems Development			11,890	15,139		15,139
Total	Research, De	velopment, Test and Evaluation, Defense-Wide	350,904	352,072		352,072		

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

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

Appropriation: 0400D Research, Development, Test and Evaluation, Defense-Wide

Line	Program Element			Se	FY 2024
No	Number	Item	Act	<u>c</u>	Request
55	06036805	Manufacturing Technology Program	03	U	46,404
56	0603712S	Generic Logistics R&D Technology Demonstrations	03	U	16,580
58	0603720S	Microelectronics Technology Development and Support	03	U	144,707
	Advanced Te	chnology Development			207,691
139	0605070S	DOD Enterprise Systems Development and Demonstration	05	U	
140	0605080S	Defense Agency Initiatives (DAI) - Financial System	05	U	32,629
	System Deve	lopment & Demonstration			32,629
168	0605502S	Small Business Innovative Research	06	U	13
	Management	Support			
263	0708012S	Pacific Disaster Centers	07	U	1,905
264	0708047S	Defense Property Accountability System	07	U	3,249
	Onemational	Systems Development			5,154

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

Appropriation: 0400D Research, Development, Test and Evaluation, Defense-Wide

Line <u>No</u>	Program Element <u>Number</u>	Item	Act	Se C	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment
55	06036805	Manufacturing Technology Program	03	U	80,924	92,766		92,766
56	0603712S	Generic Logistics R&D Technology Demonstrations	03	U	12,325	13,663		13,663
58	0603720S	Microelectronics Technology Development and Support	03	U	202,475	207,333		207,333
	Advanced Technology Development				295,724	313,762		313,762
139	0605070S	DOD Enterprise Systems Development and Demonstration	05	U	654			
140	06050805	Defense Agency Initiatives (DAI) - Financial System	05	U	31,136	23,171		23,171
	System Deve	lopment & Demonstration			31,790	23,171		23,171
168	06055028	Small Business Innovative Research	06	U	11,500			
	Management :	Support			11,500			
263	0708012S	Pacific Disaster Centers	07	U	5,733	11,875		11,875
264	0708047S	Defense Property Accountability System	07	U	6,157	3,264		3,264
	Operational	Systems Development			11,890	15,139		15,139
Total	Total Defense Logistics Agency					352,072		352,072

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

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

Appropriation: 0400D Research, Development, Test and Evaluation, Defense-Wide

Line	Program Element			Se	FY 2024
No	Number	Item	Act	<u>c</u>	Request
55	0603680S	Manufacturing Technology Program	03	U	46,404
56	0603712S	Generic Logistics R&D Technology Demonstrations	03	U	16,580
58	0603720S	Microelectronics Technology Development and Support	03	U	144,707
	Advanced Te	chnology Development			207,691
139	0605070S	DOD Enterprise Systems Development and Demonstration	05	U	
140	06050805	Defense Agency Initiatives (DAI) - Financial System	05	U	32,629
	System Deve	lopment & Demonstration		19	32,629
168	0605502S	Small Business Innovative Research	06	U	
	Management	Support			
263	0708012S	Pacific Disaster Centers	07	U	1,905
264	0708047S	Defense Property Accountability System	07	U	3,249
	Operational	Systems Development			5,154

Defense Logistics Agency • Budget Estimates FY 2024 • RDT&E Program

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

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Line #	Budget Activit	y Program Element Number	Program Element Title	Page
55	03	0603680S	Manufacturing Technology Program (ManTech)Volum	e 5 - 1
56	03	0603712S	Logistics Research and Development Technology (Log R&D) Volume	9 5 - 27
58	03	0603720S	Microelectronics Technology Development and Support (DMEA)Volume	9 5 - 47

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Line #	Budget Activit	y Program Element Number	Program Element Title F	Page
139	05	0605070S	DOD Enterprise Systems Development and Demonstration	- 53
140	05	0605080S	Defense Agencies Initiative (DAI) - Financial System	- 59

Defense Logistics Agency • Budget Estimates FY 2024 • RDT&E Program

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Line #	Budget Activit	y Program Element Number	Program Element Title	Page
168	06	0605502S	Small Business Innovative Research (SBIR)Volu	me 5 - 69

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Line #	Budget Activit	y Program Element Number	Program Element Title	Page
263	07	0708012S	Pacific Disaster CenterVolume 5	- 73
264	07	0708047S	Defense Property Accountability System (DPAS) Volume 5	- 81

Defense Logistics Agency • Budget Estimates FY 2024 • RDT&E Program

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

Program Element Title	Program Element Number	Line #	BA Page
DOD Enterprise Systems Development and Demonstration	0605070S	139	05 Volume 5 - 53
Defense Agencies Initiative (DAI) - Financial System	0605080S	140	05 Volume 5 - 59
Defense Property Accountability System (DPAS)	0708047S	264	07 Volume 5 - 81
Logistics Research and Development Technology (Log R&D)	0603712S	56	03 Volume 5 - 27
Manufacturing Technology Program (ManTech)	0603680S	55	03Volume 5 - 1
Microelectronics Technology Development and Support (DMEA)	0603720S	58	03 Volume 5 - 47
Pacific Disaster Center	0708012S	263	07 Volume 5 - 73
Small Business Innovative Research (SBIR)	0605502S	168	06 Volume 5 - 69

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Item	n Justificat	ion: PB 202	24 Defense	Logistics A	gency					Date: Marc	h 2023	
· · · ·						R-1 Program Element (Number/Name) PE 0603680S <i>I Manufacturing Technology Program (ManTech)</i>						
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	238.038	80.924	92.766	46.404	0.000	46.404	50.397	51.347	51.246	50.343	Continuing	Continuing
IBMP: Improving Industrial Base Manufacturing Processes (formerly Material Availability)	125.769	25.654	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
AAA: Maintaining Viable Supply Sources (formerly High Quality Sources)	80.717	15.199	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
000: Improving Technical and Logistics Information (formerly Industry and Customer Collaboration)	31.552	40.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
IBA: Industrial Base & Aging Weapon System Support	0.000	0.000	53.222	36.728	0.000	36.728	40.542	41.305	41.091	39.982	Continuing	Continuing
TDM: 3D Tech Data Modernization / Model Based Enterprise	0.000	0.000	39.544	9.676	0.000	9.676	9.855	10.042	10.155	10.361	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Logistics Agency (DLA) Manufacturing Technology (ManTech) Program funds the advanced technology development needed to achieve a responsive, efficient domestic industrial base that meets the warfighters' needs in an affordable and timely manner. The ManTech program works with DLA's diverse supply chains to improve manufacturing capability throughout a product's life cycle. It provides the crucial link between invention and application by maturing, scaling up, and validating advanced manufacturing technology in "real world" environments. ManTech developments provide a path to low-risk technology implementation for many small businesses and defense unique suppliers as well as depots and shipyards that are critical to DLA. By anticipating and addressing production and sustainment problems before they occur, readiness levels increase and sustainment costs are decreased.

Beginning in FY 2023, DLA ManTech shifts from three Strategic Focus Areas (SFAs) to two Lines of Effort (LOEs): 1) Industrial Base and Aging Weapon System Support (R&D LOE 1) and 2) 3D Technical Data Modernization / Model-Based Enterprise (R&D LOE 2). These LOEs are closely aligned to documented and tracked priorities specified in the most current DLA Strategic Plan, that calls for Digital Business Transformation as one of three critical capabilities to achieve DLA's business goals of enhancing performance, reducing costs, and becoming more predictive and data-driven. This critical capability also seeks to transform systems and processes to improve data transparency, reliability, and security for our employees, customers, and suppliers. DLA's initiatives within this critical capability align with the interim National Security Strategy (NSS) by emphasizing the importance of harnessing rapid emerging technologies that will transform how we do business.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Defense Logistics	s Agency	Date: March 2023
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)	R-1 Program Element (Number/N PE 0603680S / Manufacturing Tech	nology Program (ManTech)
-In addition to alignment to DLA's top strategic priorities, under Section 2521 and Agencies. As a Principal member of the Joint Defense Manufacturing T		
-The Industrial Base and Aging Weapon System Support LOE (R&D LOE 1) reliable industrial base that provides affordable and previously hard-to-procu 1: Warfighter Always, DLA LOE 2: Trusted Mission Partner, DLA LOE 4: Mod Capability C: Digital Business Transformation through the following portfolios Readiness Optimization—Advanced Casting Technology), Forgings (Procure Network), Additive Manufacturing (AM), and Advanced Microcircuit Emulatio	are critical parts for DOD weapon system dernized Acquisition and Supply Chain s: DOD Subsistence Supply Chain (Sul ement Readiness Optimization—Forgir	ms. This LOE aligns to DLA Strategic Plan LOE Management, as well as the cross-cutting Critical psistence Network), Castings (Procurement
-The 3D Technical Data Modernization / Model Based Enterprise LOE (R&D transform and streamline supply system responsiveness for DLA-managed c information among DLA, the Military Services, DLA industry partners and DL for parts production and more economical small batch production. Primarily this R&D LOE cuts across DLA Strategic Plan LOE 1: Warfighter Always, DL Chain Management through portfolios for DOD soldier and individual equipm Research (DLIR), as well as out of budget cycle or Emerging Manufacturing	commodities. Efforts seek to improve a A customers. The benefits include sho focused on the DLA Strategic Plan Cri A LOE2: Trusted Mission Partner, and nent (Military Unique Sustainment Tech	nd facilitate the exchange of engineering and logistics rter product introduction cycles, lower set up-costs tical Capability C: Digital Business Transformation, DLA LOE 4: Modernized Acquisition and Supply
-Until the shift from SFAs to LOEs in FY 2023, DLA ManTech remains aligne Base Manufacturing Processes (IIBM); 2) Maintaining Viable Sources of Sup		
-The IIBM SFA includes efforts to reduce industrial base material costs and p supply chain focused execution portfolios for food (Subsistence Network), Ca (Procurement Readiness Optimization—Forging Advance System Technolog	astings (Procurement Readiness Optin	nization—Advanced Casting Technology), Forgings
-The MVSS SFA includes efforts to assure the commercial industrial base can This strategic focus area mitigates supply issues caused by the lack of a relia and maintain weapon systems. The major focus of the program is maintainin Microcircuit emulation allows the Services to save significant costs by using assembly.	able domestic manufacturing capability ng a reliable, trusted, domestic source f	to produce products or raw materials needed to build or "non-procurable" linear and digital microcircuits.
-The ITLI SFA includes efforts to improve and facilitate the exchange of engi and DLA customers. It includes the Military Unique Sustainment Technology of this SFA is to capitalize on the emerging "Model Based Enterprise" paradi up and down the supply chain and across all DLA Customers and suppliers.	 (MUST) and the Defense Logistics Inf igm and the semantic web as an enable 	ormation Research (DLIR) programs. A primary focus er to a logistics system that is smart and connected

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Defense Logistics A	Date: March 2023	
	R-1 Program Element (Number/Name) PE 0603680S <i>I Manufacturing Technology Program (Ma</i>	nTech)

products to three-dimensional computer based models, and to develop processes to move from "electronic paper" (i.e. PDF files) to technical data files that can interface directly with industries' engineering systems. The benefits include shorter product introduction cycles, lower set up-costs for parts production and more economical small batch production.

DLA's focus for this budget cycle highlights advanced capabilities in digital and technical data modernization, data management and analytics to fulfill the DLA role in the DOD Digital Engineering Strategy and improve sharing of data with the industrial base and supported organizations. Investment explores technologies to lower the Agency's material acquisition and operation costs and improve weapons systems support. This effort spans across both DLA R&D Program Elements and R&D LOEs, impacting across the DOD Joint Defense Manufacturing Technology Panel and DLA Enterprise logistics processes.

ogram Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	<u>FY 2024</u>	Total
Previous President's Budget	38.268	46.166	45.157	-	4	5.157
Current President's Budget	80.924	92.766	46.404	-	4	6.404
Total Adjustments	42.656	46.600	1.247	-		1.247
 Congressional General Reductions 	-	-				
 Congressional Directed Reductions 	-	-				
 Congressional Rescissions 	-	-				
 Congressional Adds 	46.000	46.600				
 Congressional Directed Transfers 	-	-				
 Reprogrammings 	-0.338	-				
 SBIR/STTR Transfer 	-3.006	-				
 Internal Reallocation 	-	-	1.000	-		1.000
Labor Inflation	-	-	0.025	-		0.025
 Non-labor Inflation 	-	-	0.222	-		0.222
Congressional Add Details (\$ in Millions, and Inclu					FY 2022	FY 2023
Project: IBMP: Improving Industrial Base Manufactur	ring Processes (form	nerly Material Av	/ailability)			
Congressional Add: Steel Performance Initiative i	n Castings				10.000	
Congressional Add: PFAS Compounds In Food P	ackaging Materials	Research			3.000	
		Co	ongressional Add Subtot	als for Project: IBMP	13.000	
Project: 000: Improving Technical and Logistics Info	ormation (formerly Ir	ndustry and Cus	tomer Collaboration)	-		
				_	8.000	
Congressional Add: Supply Chain for Readiness	and Sustainment					
Congressional Add: Supply Chain for Readiness Congressional Add: Rare Earth Recovery Techno					2.000	

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Defense Logistics A	Agency Date	e: March 2023	
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)	R-1 Program Element (Number/Name) PE 0603680S <i>I Manufacturing Technology Program (ManTec</i>	h)	
Congressional Add Details (\$ in Millions, and Includes General Rec	luctions)	FY 2022	FY 2023
Congressional Add: Graphite Materials		9.000	-
Congressional Add: Nanostructured Iron Nitride Permanent Magnet	S	7.000	-
Congressional Add: Modeling & Simulation Competition		2.000	-
	Congressional Add Subtotals for Project: OOO	33.000	-
Project: IBA: Industrial Base & Aging Weapon System Support			
Congressional Add: Flake graphite-based solutions for PFAS contain	nination	-	5.000
Congressional Add: Steel Performance Initiative		-	13.000
	Congressional Add Subtotals for Project: IBA	-	18.000
Project: TDM: 3D Tech Data Modernization / Model Based Enterprise			
Congressional Add: AI based market research system		-	3.000
Congressional Add: Supply Chain Readiness Improvement Program	า	-	5.000
Congressional Add: Battery Grade Graphite		-	3.600
Congressional Add: High performance magnets		-	5.000
Congressional Add: Hypersonic radomes and apertures		-	5.000
Congressional Add: Nanostructured iron nitride permanent magnets	;	-	7.000
	Congressional Add Subtotals for Project: TDM	-	28.600
	Congressional Add Totals for all Projects	46.000	46.600

Change Summary Explanation

Internal Reallocation FY 2024: Three-dimensional (3D) Technical Data Modernization / Model-Based Enterprise (TDM) baseline was increased by \$0.357 million for Critical Chemical, Strategic Material Related Efforts. Industrial Base and Aging Weapon System Support (IBA) baseline was increased by \$1.000 million based on an internal funding reallocation decision to address sustainment gaps and bridge technical solutions into higher a Manufacturing Readiness Level (MRL) for solider and system batteries.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency											ch 2023	
0400/3					R-1 Program Element (Number/Name)Project (NPE 0603680S / Manufacturing Technology PIBMP / Imp				Number/Name) proving Industrial Base uring Processes (formerly Material y)			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
IBMP: Improving Industrial Base Manufacturing Processes (formerly Material Availability)	125.769	25.654	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Improving Industrial Base Manufacturing Processes Strategic Focus Area (SFA) is an R&D effort undertaken with DLA's suppliers to reduce material costs, reduce the length and variability of production lead-times, assure DLA managed products meet performance requirements, and continuously improve quality and reliability. Benefits of this SFA include lower material costs, lower inventory levels and more predictable customer wait times, fewer quality deficiencies, and lower customer support costs. This SFA includes within its scope the Subsistence Network, the Battery Network, the Castings/Forging programs and Additive Manufacturing programs.

*In FY 2023, this SFA, Improving Industrial Base Manufacturing Processes (IBMP), closes out. All programs described below shift to the Industrial Base & Aging Weapon System Support (IBA) Line of Effort (see R-2A).

The Subsistence Network (SUBNET) program focuses on solutions to develop and promote manufacturing improvements in the subsistence supply chain. The program's expanded areas of interest include combat rations, food equipment, field feeding solutions, food footprint, food innovations, food safety and defense developments, garrison feeding, nutrition and health, storage and packing solutions, surge and sustainment support, and water security. SUBNET forms a community of practice with Military Services, U.S. Department of Agriculture, Natick Soldier Research Development, and Engineering Center; Academia, and Industry to research and promote manufacturing improvements in the Subsistence Supply Chain. The SUBNET goals are to utilize innovation and the leverage the latest technologies to maximize the logistics capability and capacity within the subsistence supply chain industrial base. The desired outcomes include reduced cost, increased efficiencies, improved processes, enhanced quality, and improved surge demand capabilities.

The Casting program works to ensure a stable, reliable, and competitive domestic casting industrial base supporting the weapon system needs of the Department of Defense (DOD) and the Defense Logistics Agency (DLA). The casting program works with industry, universities, and the Casting Industry Associations to identify projects that improve the materials, processes and business practices of the nation's foundry industry. The program aligns projects with strategic issues and identified focus areas within the DLA and DOD. Guidance for these projects comes from the DLA Strategic Plan and input from the casting industry. Weapon system spare parts managed by DLA that contain castings are responsible for a disproportionate share of DLA's backorders or unfilled orders (UFOs). Cast parts are about two percent of National Stock Numbered Class IX parts but represent about five percent of all backorders, and when only the oldest backorders are considered, up to 10 percent are castings. This program includes tasks that focus on developing new capabilities in the areas of inspection, materials, processes, modeling, and design. Once developed, these capabilities will support the foundry industry, where the technologies will be tested and implemented, most often in conjunction with the casting industry associations. These advancements improve the metal casting supply chains for the DOD and the DLA to better support the warfighter. We will invest in projects aimed at reducing lead-time, reducing cost, and improving quality of castings critical to DOD weapon systems.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agen		Date: March 2023	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
0400/3	PE 0603680S / Manufacturing Technology P	IBMP I Imp	proving Industrial Base
	rogram (ManTech)	Manufactu	ring Processes (formerly Material
		Availability)

The Forging program works to ensure a stable, reliable, and competitive domestic forging industrial base for the weapon system needs of the Department of Defense (DOD) and the Defense Logistics Agency (DLA). Working with industry, universities, and the Forging Industry Association to identify projects that improve the materials, processes and business practices of the nation's forging industry. The program aligns its projects with strategic issues and focus areas identified within the DLA and DOD. Guidance for these projects comes from the DLA Strategic Plan and input from the forging industry. Weapon system spare parts managed by DLA that contain Forgings are responsible for a disproportionate share of DLA's backorders or unfilled orders (UFOs). Forged parts are about two percent of National Stock Number (NSN) Class IX parts but represent about five percent of all backorders, and when only the oldest backorders are considered, up to 10 percent are forgings. This program includes tasks to develop new capabilities in the areas of inspection, materials, processes, modeling, and design. Once developed these capabilities will support the forging industry, where these technologies will be tested and implemented in conjunction with the forging industry associations. These advancements improve the forging supply chains for the DOD and the DLA to better support the warfighter. We will invest in projects aimed at reducing lead-time, reducing cost, and improving quality of forgings critical to DOD weapon systems.

The Battery Network (BATTNET) program objective is to develop the next generation of battery manufacturing technologies for cost and price efficiency, longer shelf life, and lighter batteries with higher energy. BATTNET conducts R&D initiatives to address sustainment gaps and bridge technical solutions into higher a Manufacturing Readiness Level (MRL) for specific groups of batteries. BATTNET also focuses on projects to develop the production capability for advanced lithium-based non-rechargeable and rechargeable batteries to ensure the prompt and sustained availability, quality, and affordability of Service approved batteries. Desired outcomes include: streamlined inventory and associated cost reductions through standardization and improved distribution practices; resolved obsolescence issues; addressed surge and sustainment issues; enhanced security of supply chain; increased competition and manufacturing base; reduced per unit battery cost; and leveraged Service-level (Army, Navy, Air Force) and other governmental (DOE, DOT, NASA) R&D efforts to insert new technology and practices into the existing DLA battery inventory.

The Additive Manufacturing (AM) program objective is to streamline customer purchase requests for AM items and provide the Warfighter an alternate source of supply for designated requirements. This effort responds to DLA's role called out in DOD Instruction 5000.93, Use of AM in DOD to integrate AM into the supply chain, by leading the development of effective AM procurement processes. The AM effort explores innovative technologies as it pursues this alternate means of supply for products that are otherwise non-procurable or susceptible to procurement issues. The AM effort includes collaborative efforts with the Military Services to develop analytical tools to identify viable AM candidates while considering logistics planning factors. The AM effort requires effective management of the digital thread composed of authoritative 3D digital technical, manufacturing and testing data exchanged among designers, engineers, maintainers, logisticians, procurement managers and the vendor base to enable quality assurance acceptability. Potential AM benefits include products that can address an unfulfilled Warfighter readiness need by reducing production lead times, production costs, storage costs, transportation costs and in some cases fuel consumption due to lighter design and material options. DLA R&D will leverage these efforts with Industry, Academia and ongoing Military Service-level agreements (Army, Navy, Marine Corps, Air Force), Oak Ridge National Laboratory (ORNL) and the Department of Energy.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Improving Industrial Base Manufacturing Processes (formerly Material Availability)	12.654	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Age		Date: N	/larch 2023			
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603680S <i>I Manufacturing Technology P</i> <i>rogram (ManTech)</i>	Project (Number/Name) / P IBMP I Improving Industrial Base Manufacturing Processes (formerly Mate Availability)				
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2022	FY 2023	FY 2024	
Description: The Subsistence Network (SUBNET) program continued to reset to improve the subsistence supply chain in FY 2022. The SUBNET program stakeholder's requirements as well as leveraged supply chain innovations, be program continues its pilot test in the areas of modernization and readiness a improving subsistence visibility through enhancing receipting and barcoding a successfully conducted research in FY 2022 regarding radio frequency steriliz products, determining failure mechanisms of polymeric packaging materials to assessed the current unified combatant command and overseas subsistence technological capabilities. The program also pursued small business innovation robotic automation in military dining facilities, developing and promoting soluti could be deployed in a short period of time, and develop innovative solutions works with community partners (government, military services, academia, and initiatives in the subsistence supply chain.	incorporated emerging technologies to address est practices, and industry trends. The SUBNET nalysis of joint food management system and at an OCONUS location. The SUBNET also ration processing of unitized group rations for two b identify replacement laminate structures, and functions by examining current operational and on phase II research topics in subsistence to include to address moldy pallets in storage areas. SUB d industry) to conduct research and test and eval	/o lude that NET				
The Casting program monitored awarded projects that were aimed to researc solutions to ensure a viable and competitive domestic industrial base. The Ca industry, and industry associations to continually identify future development a DLA to include appropriate strategic plans and roadmaps. These projects con simulation, die coatings and lubrication, virtual reality, automation and sensor supply chain in support of the warfighter.	sting program continued its work with Academia and technical needs in alignment with the DoD a tinue beyond FY2022 in areas of modeling and	and				
The Forging program continued to monitor awarded projects focused on explo- materials to reduce production lead-time and costs, modeling and simulation is improvements to post processing methods. We continued to see positive result Forging Furnaces reported over a 40% reduction in Natural Gas usage and methods furnace which was coated as part of this project. A few projects successfully new technologies, such as the Direct from the Forge Intensive Quench project	software improvements and enhancements and ults from these projects, Ceramic Coatings for nore than 60% reduction in recovery time for a for finished and continue working on implementing	orging the				
The Battery Network (BATTNET) program The Battery Network (BATTNET) production readiness and technology transition for soldier and system batteries improved the capacity and capabilities of lithium anode production for current at a major supplier. The program enabled UV curable polymer processes for	es within the DLA supply chain. The program non-rechargeable and future rechargeable batt					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	ю			Date: N	larch 2023		
Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name) 0400 / 3 PE 0603680S / Manufacturing Technology P IBMP / Improving Industrial Base rogram (ManTech) Manufacturing Processes (for Availability)							
B. Accomplishments/Planned Programs (\$ in Millions)			F۱	(2022	FY 2023	FY 2024	
and tested several versions of Bipolar lead-acid technology in major system for battery energy and power, and extend battery shelf life and operational life. The safety tests with lithium titanate cells for potential replacements to nickel-cadm Congressional Add projects for transitioning high value solid-state electrolyte p program continued to initiate and manage several SBIR projects in advanced li rapid materials synthesis. The Additive Manufacturing (AM) program, using market research, requests for Announcements (BAA), DLA R&D funded analysis of alternatives for the best of information from several logistics, engineering, legal, and supplier data sources analytics effort transitioned to the Military Services and will help uncover critica AM as a viable option. The DLA AM R&D program also financed collaborative for enhance the AM product data management workflows that will enable AM acce of an AM distributive manufacturing ecosystem. Another avenue to explore way test on remote inspection capabilities, which rendered great insights into techn lead time in the testing environment. The reduction of R&D AM funding of appr MANTECH \$3.020 million directed reductions, impacted the DLA's continued et to achieve precise robustness-repeatability-reproducibility of part fabrication us manufacturing setting.	ig he d is co ss ot rall ions						
	Accomplishments/Planned Prog	jrams Subt	otals	12.654	-	-	
		FY 2022	FY 2023]			
Congressional Add: Steel Performance Initiative in Castings		10.000	-				
FY 2022 Accomplishments: Awarded for new efforts under existing Steel Per Continued monitoring projects that began under the FY2021 Steel Performance projects within the following areas of focus: Steel Alloy Development and Man Process and Performance Modeling; Advanced Testing & Qualification; Improv Optimized Processing of Steel Materials.	e Initiative that includes numerous ufacturing Technology; Integrated						
Congressional Add: PFAS Compounds In Food Packaging Materials Researd	ch	3.000	-	1			
FY 2022 Accomplishments: Awarded new contract under the the Subsistence Announcement (BAA-0004-21) for pre and polyfluoroalkyl substances (PFAS)	•••						

PE 0603680S: *Manufacturing Technology Program (ManTec...* Defense Logistics Agency

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Lo	gistics Agency			Date: March 2023
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/I PE 0603680S <i>I Manufacturing Tec</i> <i>rogram (ManTech)</i>		IBMP I Imp	lumber/Name) proving Industrial Base pring Processes (formerly Material y)
Army Corps of Engineers Research and Development Center (ERI lead the (PFAS research to determine where PFAS is originating in analysis of the raw material (e.g., film) used for MRE pouches and	the MRE assembly process through the	FY 2022	FY 2023	
	Congressional Adds Subtotals	13.000	-	
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A				

Remarks

D. Acquisition Strategy

The DLA R&D program is executed through Delivery Orders placed on Indefinite Delivery/Indefinite Quantity Contracts that resulted from competitive Broad Agency Announcements and through interagency agreements with the Military Services when it is cost effective and/or provides some technical advantage, e.g. improves the probability of successful transition. DLA also has a continuously open Broad Agency Announcement for Emerging Technologies.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency									Date: Marc	ch 2023		
Appropriation/Budget Activity 0400 / 3				-	am Elemen t 30S / Manufa anTech)	•		AAA I Mair	umber/Nan ntaining Via ligh Quality	ble Supply S	Sources	
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
AAA: Maintaining Viable Supply Sources (formerly High Quality Sources)	80.717	15.199	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Maintaining Viable Supply Sources (MVSS) Strategic Focus Area (SFA) consists of projects undertaken to assure that the industrial base can respond to DLA requirements and DLA can fill military customers' material requirements reliably and consistently. Benefits include eliminating cancelled requisitions returned to customers as "non-procurable." This strategic focus area includes within its scope the Advanced Microcircuit Emulation (AME) program with the objective to maintain a reliable and trusted domestic source for "non-procurable" linear and digital microcircuits. Microcircuit emulation allows the Services to save significant costs by using form, fit and functionally equivalent spare parts rather than redesigning the next-higher-assembly. Without the technologies planned on the AME Roadmap, DLA will not be able to support DoD's requirements for high quality spare parts for critical electronic systems and subsystems, resulting in decreased warfighter readiness and significant cost for weapons system or component redesign.

*In FY 2023, this SFA, Maintaining Viable Supply Sources (AAA), closes out. The Advanced Microcircuit Emulation (AME) program shifts to the Industrial Base & Aging Weapon System Support (IBA) Line of Effort (see R-2A).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Maintaining Viable Supply Sources (formerly High Quality Sources)	15.199	-	-
Description: AME completed and transitioned the 20 Volt Operational Amplifier (Linear) Project in the first quarter. Dual-Port Memory (DPRAM) microcircuits Phase II is scheduled for qualification in the fourth quarter. AME continued development of 40 Volt Operational Amplifier project with anticipated completion for transition in third quarter of FY 2023. AME began Phase III project for development of Additive Manufacturing techniques to address Microcircuit Cases. AME began additional Linear/Analog emulation projects to include Small Case 20 Volt Operational Amplifier, Radiation-Hardened Linear microcircuits, and Dual-Voltage Process Development projects; anticipated durations to last through FY 2024. Also, AME initiated a project in the second quarter to acquire and implement advanced Ion Implantation equipment that expands increases microcircuit emulation capability.			
Accomplishments/Planned Programs Subtotals	15.199	-	
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u>			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agen	су	Date: March 2023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
0400 / 3	PE 0603680S / Manufacturing Technology P	AAA I Maintaining Viable Supply Sources
	rogram (ManTech)	(formerly High Quality Sources)

D. Acquisition Strategy

The DLA R&D program is executed through Delivery Orders placed on Indefinite Delivery/Indefinite Quantity Contracts that resulted from competitive Broad Agency Announcements and through interagency agreements with the Military Services when it is cost effective and/or provides some technical advantage, e.g. improves the probability of successful transition. DLA also has a continuously open Broad Agency Announcement for Emerging Technologies.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency								Date: Marc	ch 2023			
Appropriation/Budget Activity 0400 / 3				R-1 Program Element (Number/Name)Project (NPE 0603680S / Manufacturing Technology P000 / Imp				Number/Name) proving Technical and Logistics on (formerly Industry and Customer ition)				
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
OOO: Improving Technical and Logistics Information (formerly Industry and Customer Collaboration)	31.552	40.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Improving Technical and Logistics Information (ITLI) SFA projects improve and facilitate the communication of technical and logistics information among industry, DLA's military customers and DLA. This SFA includes the Military Unique Sustainment Technology (MUST), the Defense Logistics Information Research (DLIR), and the Emergent Manufacturing Technology (EMT) portfolios within its scope.

*In FY 2023, this SFA, Improving Technical and Logistics Information(OOO), closes out. All programs shift to the 3D Tech Data Modernization / Model Based Enterprise (TDM) Line of Effort (see R-2A).

The Military Unique Sustainment Technology (MUST) program addresses GAO Report 12-707 recommendations for DoD to establish a "knowledge-based approach" to define, communicate, and collaborate on military unique Combat Uniforms and Individual Equipment (CUIE) requirements. DLA has the responsibility to manage and maintain the technical requirements among the Services and the Defense Industrial Base. Currently there is no common environment for collaborating on new requirements among the stakeholders. The strategic objective of the DLA MUST program is to identify, develop, and adopt technologies that can significantly improve the joint process from transitioning new item development to DLA sustainment and operations. The Program focuses on technologies that will transform the military CUIE supply chain from an "electronic paper" (i.e. PDF/MS Word) based manual environment, into a knowledge-based model driven environment. This approach will result in seamlessly communicating military unique technical requirements throughout the end-to-end supply chain, leading toward a Model Based Enterprise.

The Defense Logistics Information Research (DLIR) program researches core technologies to improve the quality, security, and interoperability of logistics data acquisition and management to enable and streamline DLA operations. DLA enables transformation of business practices and methodologies as the data for weapons systems evolve from traditional formats and delivery methods (such as two-dimensional images and PDF formats) to newer, more innovative methods (such as three-dimensional solid models, object-oriented databases, service-oriented architecture (SOA) and Web 3C standards). This transformational shift for DLA is driven by the Model-Based Enterprise (MBE) approach, the way industry is delivering design and development data for weapon systems to the Military Services and the way the Military Services in turn manage and provide the data to DLA. DLA Logistics Operations, DLA Acquisition, DLA Tech/Quality, and DLA's Major Subordinate Commands (MSCs) are key stakeholders in the DLIR initiatives to modernize the representation and delivery of weapons systems data.

The EMT program addresses emerging and out of cycle requirements that always occur as DLA strives to maintain the readiness of the aging weapon systems.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	су			Date: N	larch 2023					
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Nat PE 0603680S <i>I Manufacturing Techn</i> <i>rogram (ManTech)</i>		000 I Informa	Project (Number/Name) OOO I Improving Technical and Logistics Information (formerly Industry and Customer Collaboration)						
B. Accomplishments/Planned Programs (\$ in Millions)				FY 2022	FY 2023	FY 2024				
Title: Improving Technical and Logistics Information (formerly Industry and Cu	stomer Collaboration			7.071	-	-				
 Description: Military Unique Sustainment Technology (MUST) delivered two v requirement document to transition from R&D: Supply Request Package Tool a SRP Tool has been successfully transitioned and adopted by all the Military Sei introduction to DLA sustainment. The Source Sampling Tool (SST) captures the laboratories used by Troop Support Clothing and Textile prime contractors. The initial prototype of the Digital Model library (DML) was developed. The DML with models and related industry standard models. The Defense Logistics Information Research (DLIR) program completed the Composed to modernize the process to obtain current Technical Data Packages (TManagement (PLM) systems of the Military Services' ESAs and PMOs. DLIR Service organizations, including the ESAs and PMOs, to guide and influence g support DLA and its supplier needs. DLIR explored the ability of commercial Ditechniques to improve the security of TDPs and support the eventual developm of the Future" (COTF) by identifying and prototyping new cleansing tools and n DLIR continued to support DLA's Technical Data Management Transformation architecture design and began efforts in building the digital thread partnering w Artillery Systems. The Emerging Manufacturing Technology (EMT) program invested in Advance DOD and Federal Government contingency operations, such as PPE and decorresponse. In addition, EMT provided funding Critical to the transition and communovation Research (SBIR) projects such as emerging magnetic braking technical contarts and communication Research (SBIR) projects such as emerging magnetic braking technication as the provided funding Critical to the transition and communication Research (SBIR) projects such as emerging magnetic braking technication and communication Research (SBIR) projects such as emerging magnetic braking technication and communication Research (SBIR) projects such as emerging magnetic braking technication and communication Research (SBIR) projects such as emerging magne	and Source Sampling Test Reporting T ervices and other DLA customers for ne test results from the independent co e SST is ready for vendor roll out. In a ill be the repository for CUIE digital tec onnecting the Model-Based Enterprise DPs) directly from the Product Lifecyc also developed standard guidance for eneration of 3D, model based TDPs th gital Rights Management (DRM) tools nent of functional requirements for the nethods while simultaneously cleansing (TDMT) efforts to determine the future ith the Air Force KC135 and the Army' d Manufacturing solutions for DLA's su ontamination products and materials fo nercialization of successful Small Busin	Fool. The ew item ommercia addition, shnical da e (MBE) cle Military nat will and "Catalog g data. e state IT 's Paladi upport to r COVID ness	e al an ata ata							
risk, and advancements in Digital Manufacturing.			ge,							
	Accomplishments/Planned Program	ms Subi	totals	7.071	-	_				
	F	Y 2022	FY 20	23						
Congressional Add: Supply Chain for Readiness and Sustainment		8.000		-						
FY 2022 Accomplishments: Began work on a project that will significantly inc midsize employers (SMEs) that are ready to efficiently and effectively increase										

PE 0603680S: *Manufacturing Technology Program (ManTec...* Defense Logistics Agency

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agenc	ÿ			Date: March 2023	
0400/3	R-1 Program Element (Number/ PE 0603680S <i>I Manufacturing Teo</i> rogram (ManTech)		Project (Number/Name) OOO I Improving Technical and Logistic Information (formerly Industry and Custo Collaboration)		
		FY 2022	FY 2023		
supply chain through the adoption of additive manufacturing, automation, and ro 4.0) technologies.	botics metal-casting (Industry				
Congressional Add: Rare Earth Recovery Technology		2.000	-		
FY 2022 Accomplishments: Began coordination for a 24-month project to demo Rare Earth Elements (REEs) from electronic waste (ewaste) materials from vario sources, including DOD e-waste. Successful completion of this project would as term goal of reducing foreign reliance on REEs.	ous commercially available				
Congressional Add: Conversion Of Titanium Scrap		5.000	-		
FY 2022 Accomplishments: Began coordination for a 36-month SBIR Phase III concept of converting titanium scrap to premium powder products for 3D printing Titanium is a strategic material and critical for DOD applications.					
Congressional Add: Graphite Materials		9.000	-		
FY 2022 Accomplishments: Began coordination for 36-month project to support synthetic graphite precursor material for batteries and other military applications. US graphite industry and securing DOD supply chain for various weapon system	This would help in supporting				
Congressional Add: Nanostructured Iron Nitride Permanent Magnets		7.000	-		
FY 2022 Accomplishments: Began coordination for 36-month project to advance manufacturing readiness of non-rare-earth containing iron nitride permanent may components and systems.					
Congressional Add: Modeling & Simulation Competition		2.000	-		
FY 2022 Accomplishments: Solicited work through R&D emergent BAA to inclu (DTO); received and reviewed white paper proposals to award contract in the four of Organization (DTO) that simulates DLA's business processes.					
	Congressional Adds Subtotals	33.000	-		
<mark>C. Other Program Funding Summary (\$ in Millions)</mark> N/A <u>Remarks</u>					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agen	ю	Date: March 2023
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
0400/3	PE 0603680S I Manufacturing Technology P	OOO I Improving Technical and Logistics
	rogram (ManTech)	Information (formerly Industry and Customer
		Collaboration)

D. Acquisition Strategy

The DLA R&D program is executed through Delivery Orders placed on Indefinite Delivery/Indefinite Quantity Contracts that resulted from competitive Broad Agency Announcements and through interagency agreements with the Military Services when it is cost effective and/or provides some technical advantage, e.g. improves the probability of successful transition. DLA also has a continuously open Broad Agency Announcement for Emerging Technologies.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency									Date: Marc	ch 2023		
Appropriation/Budget Activity 0400 / 3				R-1 Program Element (Number/Name)Project (Number/Name)PE 0603680S / Manufacturing Technology PIBA / Industrial Base & Aging Weatrogram (ManTech)System Support					apon			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
IBA: Industrial Base & Aging Weapon System Support	0.000	0.000	53.222	36.728	0.000	36.728	40.542	41.305	41.091	39.982	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Industrial Base (IB) and Aging Weapon System Support Line of Effort (LOE 1) seeks to implement innovative and proactive technology solutions to ensure a robust, reliable industrial base that provides affordable and previously hard-to-procure critical parts for DOD weapon systems through the following objectives:

1. Viable and Responsive Industrial Base: maximize Defense Industrial Base capability and capacity and improve availability, quality, and affordability to support the Warfighter.

2. Obsolescence Solutions: establish a trusted manufacturing capability for qualified microcircuits to support DOD weapon system lifecycles.

3. Advanced Manufacturing: leverage advanced manufacturing capabilities to introduce and integrate additive and advanced manufacturing concepts into the DOD supply chain.

The portfolios within the IB and Aging Weapons System Support LOE include food-service supply chain solutions (Subsistence Network), Castings (Procurement Readiness Optimization—Advanced Casting Technology), Forgings (Procurement Readiness Optimization—Forging Advanced System Technology), Batteries (Battery Network), Additive Manufacturing (AM), and Advanced Microcircuit Emulation (AME).

The Subsistence Network (SUBNET) program focuses on solutions to develop and promote manufacturing improvements in the subsistence supply chain. The program's expanded areas of interest include combat rations, food equipment, field feeding solutions, food footprint, food innovations, food safety and defense developments, garrison feeding, nutrition and health, storage and packing solutions, surge and sustainment support, and water security. SUBNET forms a community of practice with Military Services, U.S. Department of Agriculture, Natick Soldier Research Development, and Engineering Center; Academia, and Industry to research and promote manufacturing improvements in the Subsistence Supply Chain. The SUBNET goals are to utilize innovation and the leverage the latest technologies to maximize the logistics capability and capacity within the subsistence supply chain industrial base. The desired outcomes include reduced cost, increased efficiencies, improved processes, enhanced quality, and improved surge demand capabilities.

The Casting program works to ensure a stable, reliable, and competitive domestic casting industrial base supporting the weapon system needs of the Department of Defense (DOD) and the Defense Logistics Agency (DLA). The casting program works with industry, universities, and the Casting Industry Associations to identify projects that improve the materials, processes and business practices of the nation's foundry industry. The program aligns projects with strategic issues and identified focus areas within the DLA and DOD. Guidance for these projects comes from the DLA Strategic Plan and input from the casting industry. Weapon system spare parts managed by DLA that contain castings are responsible for a disproportionate share of DLA's backorders or unfilled orders (UFOs). Cast parts are about two percent of National Stock Numbered Class IX parts but represent about five percent of all backorders, and when only the oldest backorders are considered, up to 10 percent are castings. This program includes tasks that focus on developing new capabilities in the areas of inspection, materials, processes, modeling, and design. Once

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency					
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603680S <i>I Manufacturing Technology P</i> <i>rogram (ManTech)</i>					

developed, these capabilities will support the foundry industry, where the technologies will be tested and implemented, most often in conjunction with the casting industry associations. These advancements improve the metal casting supply chains for the DOD and the DLA to better support the warfighter. We will invest in projects aimed at reducing lead-time, reducing cost, and improving quality of castings critical to DOD weapon systems.

The Forging program works to ensure a stable, reliable, and competitive domestic forging industrial base for the weapon system needs of the Department of Defense (DOD) and the Defense Logistics Agency (DLA). Working with industry, universities, and the Forging Industry Association to identify projects that improve the materials, processes and business practices of the nation's forging industry. The program aligns its projects with strategic issues and focus areas identified within the DLA and DOD. Guidance for these projects comes from the DLA Strategic Plan and input from the forging industry. Weapon system spare parts managed by DLA that contain Forgings are responsible for a disproportionate share of DLA's backorders or unfilled orders (UFOs). Forged parts are about two percent of National Stock Number (NSN) Class IX parts but represent about five percent of all backorders, and when only the oldest backorders are considered, up to 10 percent are forgings. This program includes tasks to develop new capabilities in the areas of inspection, materials, processes, modeling, and design. Once developed these capabilities will support the forging industry, where these technologies will be tested and implemented in conjunction with the forging industry associations. These advancements improve the forging supply chains for the DOD and the DLA to better support the warfighter. We will invest in projects aimed at reducing lead-time, reducing cost, and improving quality of forgings critical to DOD weapon systems.

The Battery Network (BATTNET) program objective is to develop the next generation of battery manufacturing technologies for cost and price efficiency, longer shelf life, and lighter batteries with higher energy. BATTNET conducts R&D initiatives to address sustainment gaps and bridge technical solutions into higher a Manufacturing Readiness Level (MRL) for specific groups of batteries. BATTNET also focuses on projects to develop the production capability for advanced lithium-based non-rechargeable and rechargeable batteries to ensure the prompt and sustained availability, quality, and affordability of Service approved batteries. Desired outcomes include: streamlined inventory and associated cost reductions through standardization and improved distribution practices; resolved obsolescence issues; addressed surge and sustainment issues; enhanced security of supply chain; increased competition and manufacturing base; reduced per unit battery cost; and leveraged Service-level (Army, Navy, Air Force) and other governmental (DOE, DOT, NASA) R&D efforts to insert new technology and practices into the existing DLA battery inventory.

The Additive Manufacturing (AM) program objective is to streamline customer purchase requests for AM items and provide the Warfighter an alternate source of supply for designated requirements. This effort responds to DLA's role called out in DOD Instruction 5000.93, Use of AM in DOD to integrate AM into the supply chain, by leading the development of effective AM procurement processes. The AM effort explores innovative technologies as it pursues this alternate means of supply for products that are otherwise non-procurable or susceptible to procurement issues. The AM effort includes collaborative efforts with the Military Services to develop analytical tools to identify viable AM candidates while considering logistics planning factors. The AM effort requires effective management of the digital thread composed of authoritative 3D digital technical, manufacturing and testing data exchanged among designers, engineers, maintainers, logisticians, procurement managers and the vendor base to enable quality assurance acceptability. Potential AM benefits include products that can address an unfulfilled Warfighter readiness need by reducing production lead times, production costs, storage costs, transportation costs and in some cases fuel consumption due to lighter design and material options. DLA R&D will leverage these efforts with Industry, Academia and ongoing Military Service-level agreements (Army, Navy, Marine Corps, Air Force), Oak Ridge National Laboratory (ORNL) and the Department of Energy.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	псу	Date	: March 2023			
Appropriation/Budget Activity 0400 / 3	iation/Budget Activity R-1 Program Element (Number/Name) Proj PE 0603680S / Manufacturing Technology P rogram (ManTech) Systems					
Advanced Microcircuit Emulation (AME) program objective is to maintain a reli Microcircuit emulation allows the Services to save significant costs by using fo assembly. Without the technologies planned on the AME Roadmap, DLA will systems and subsystems, resulting in decreased warfighter readiness and sign	rm, fit and functionally equivalent spare parts r not be able to support DoD's requirements for	ather than redes high quality spar	gning the next-h	nigher-		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024		
Title: Industrial Base (IB) and Aging Weapon System Support Line of Effort (R	&D LOE 1)		- 35.222	36.728		
Description: Funding and efforts for the Industrial Base & Aging Weapon Systems in FY 2023. FY 2022 efforts related to this LOE are outlined in the R-2A Processes (IBMP) SFA and the R-2A for Maintaining Viable Supply Sources (A	for Improving Industrial Base Manufacturing					
FY 2023 Plans: The Subsistence Network (SUBNET) program will continue to develop and proprojects that leverage emerging technologies and innovations. The SUBNET public practices and industry trends discovered through research that are crucial research and execute projects in FY 2023 in the areas of modernization and revelops case analysis, the Congressional funded pre and polyfluoroalkyl sum MREs research, investigation of performance metrics for meals, ready-to-eat (I and conducting a Quality Study through microbiological testing with a MRE Ass Small Business Innovation Research (SBIR) topics in Subsistence.	rogram will work to improve as well as incorport to the subsistence supply chain. SUBNET pla eadiness analysis for joint food management pl bstances in packing material used to assemble MRE) packaging with sustainable packaging op	ns to nase e otions				
The Casting program will work to maintain its alignment with the DLA Strategic provide guidance as to where the focus of development should be. The casting need which include workforce development to help sustain a stable supply cha lubricants and coatings to increase quality and decrease environmental impact and increase safety. The Casting program continues to monitor projects that w and deploy innovative and technical solutions to ensure a viable and competitiv works with Academia, industry, and industry associations to continually identify alignment with the DoD and DLA.	program will continue to focus on key areas o in for DLA, modeling and simulation tools, die is and automation and robotics to reduce lead t ere awarded in FY 2022 that research, develop we domestic industrial base. The Casting progr	f iime				
The Forging program continues to monitor projects that research, develop and a viable and competitive domestic industrial base. These projects focus on imp forging manufacturing methods, materials to reduce production lead-time and e processing methods. These projects align with the needs of the DoD and DLA warfighter.	proving manufacturing processes and alternative enhancements and improvements to pre and p	re ost				
Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logis	stics Agency	Date: N	larch 2023			
--	--	--	------------	---------		
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603680S <i>I Manufacturing Technology P</i> <i>rogram (ManTech)</i>	Project (Number/ IBA / Industrial Bas System Support		leapon		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024		
The Battery Network (BATTNET) program objective is to develop the for cost and price efficiency, longer shelf life and operational life, and performance improvements also create Operational Energy benefits a BATTNET conducts R&D initiatives to address sustainment and sourd into higher a Manufacturing Readiness Level (MRL) for specific group develop the production capability for advanced lithium-based batterier and affordability of Service approved batteries. Desired outcomes ince through standardization and improved distribution practices; resolving security of supply chain; increased competition and manufacturing bat Department of Defense R&D efforts to insert new technology and cap The Additive Manufacturing (AM) program will continue to collaborate Major Subordinate Commands (MSC) to identify technologies that as identification of hard-to-source parts requirements with MILSVC cogn to obtain qualified AM parts that support a DLA customer. The DLA R capabilities that enable interoperable quality control inspections amor manufacturing base. Further analysis of alternatives for remote inspe- qualifications processes. The convergence of automated requirement categorization criteria frameworks, under the DLA-led Joint AM accept and the MILSVCs, will serve as the basis to improve DLA's position ir AM procurement and perform quality assurance of AM parts flowing if will commensurately impact the AM Program can only perform sub-optin support agreements with our Warfighting customers and partners. The Advanced Microcircuit Emulation (AME) program will continue pla technology implementations to support specific device family groups is It will continue projects both started or in-work during FY 2022. The 4 completed in the third quarter. Also, the lon Implanter capability is scf continue development of Additive Manufacturing techniques to addrest FY 2024 Plans:	safer, lighter batteries with higher energy. These batter and reduce logistics and maintenance requirements. ce obsolescence gaps and to bridge technical solutions by of batteries. BATTNET also focuses on projects to us to ensure the prompt and sustained availability, quality clude: streamlined inventory and associated cost reduction gobsolescence, surge and sustainment issues; enhance ase; reduced per unit battery cost; and assisting overall babilities into the US Military battery inventory. e with the Military Services, DLA's Process Owners and sist with AM enterprise-wide processes that align DLA's nizant engineer authorities and AM manufacturing capab &D AM projects will explore innovative remote inspection ng DLA, the Military Service cognizant engineers and the ction technologies can render repeatable and accelerate ts' tools developed with DOD consensus of AM risk otability (JAMA) project in collaboration with OSD R&E n a distributive manufacturing ecosystem to exercise an nto the DOD supply chains. Reduction of the AM baselir tions for enterprise processes and procedures needed to s of AM R&D projects into the DLA supply chain process mized part to part projects for the specific emulation in consonance with Customer and Agency requirements 40 Volt Operational Amplifier project is anticipated to be heduled for completion during the fourth quarter. AME w	, ins d lities n d d e o es. ned				

PE 0603680S: *Manufacturing Technology Program (ManTec...* Defense Logistics Agency

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agen	су	Date:	/larch 2023	
Appropriation/Budget Activity 0400 / 3	PE 0603680S / Manufacturing Technology P	Project (Number/ BA I Industrial Ba System Support		leapon
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
The Subsistence Network (SUBNET) program will continue to develop and pror projects that leverage emerging technologies and innovations. The SUBNET pr research in pre and polyfluoroalkyl substances in packing material used to asse options for the MREs, research other food sterilization methods to include food storage to food service, and artificial intelligence in food. The program will also Research (SBIR) topics in Subsistence.	ogram will continue to work Congressional Inte emble MREs, research sustainable packaging irradiation, research sensors from production t			
The Casting program will work to review proposals and award new contracts un maintaining its alignment with the DLA Strategic plan and U.S. Casting Industry problems in the procurement and manufacture of parts that contain metal castin labor-intensive processes, accuracy of existing modeling and simulation softwa performance, complex manufacturing processes, resources for sourcing and/or obsolete or antiquated specifications/standards and the continued consolidation the domestic market coupled with fierce competition from foreign sources. The that are awarded in FY23 focused on helping to secure and maintain a viable at U.S. manufacturing base. The resulting benefits from these projects are an imp supply with increased spare part availability and a resulting mission readiness f	Roadmap. These projects will work to alleviatings. These problems include dangerous and re and tools to predict end item or finished part tooling identification, the use of required but nof manufacturing facilities and resources with casting program will continue to monitor project nd vibrant foundry industry as a critical part of roved manufacturing base and reliable sources	n :s he		
The Forging program will continue to monitor awarded projects focused on impr forging manufacturing methods. Innovative coatings for materials and forging di resources to help the industry recruit and retain employees, and sensors and sr with the needs of the DoD and DLA aimed and supporting and fulfilling the need	es, workforce development with tools and mart manufacturing methods. These projects a			
The Battery Network (BATTNET) program will continue to execute projects for i standardization of soldier and system batteries within the DLA supply chain. Pr technologies for the supply chain that have been developed by industry – advar production or recycling, and advanced performance cells. The program intends lithium-ion capabilities with the US Military Services to replace obsolete nickel-	ojects will leverage new battery manufacturing need electrodes production, low-cost materials to leverage deep-discharge, long cycle life, sa	fe		
The Additive Manufacturing (AM) program will use the lessons learned during th (JAMA) efforts in the areas of AM parts prioritization, data formats, acceptability practices, stemming from the information technology modernization efforts in D of customer engagement technology peripheral digital services offerings to add convergences of the MILSVC digital experiences and DLA digital operations in	v criteria and leverage emerging digital busines LA to engage in the testing and prototyping ress the requirements generated at the			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	ю		Date: March 2023				
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/I PE 0603680S <i>I Manufacturing Teo</i> <i>rogram (ManTech)</i>		Project (Number/Name) IBA I Industrial Base & Aging Weapon System Support				
B. Accomplishments/Planned Programs (\$ in Millions)			ſ	FY 2022	FY 2023	FY 2024	
AM will also launch the needed test beds to propel the expansion of the DLA' to vendor 3D models (industry developed) to establish a repeatable process for A		ty to include	Э				
The Advanced Microcircuit Emulation (AME) program will AME will continue to will also continue planning for the specific emulation technology implementation consonance with Customer and Agency requirements. Additive Manufacturing Case 20 Volt Operational Amplifier, Radiation-Hardened Linear microcircuits, a anticipated to be completed. AME will continue to develop capabilities in digital	ns to support specific device family for Microcircuit Cases - Phase III pr and Dual-Voltage Process Developr	groups in oject, Sma					
FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024: Industrial Base and Aging Weapon System Support (IBA) baseline w based on an internal funding reallocation decision to address sustainment gaps Manufacturing Readiness Level (MRL) for solider and system batteries.							
	Accomplishments/Planned Prog	jrams Sub	otals	-	35.222	36.728	
		FY 2022	FY 2	023			
Congressional Add: Flake graphite-based solutions for PFAS contamination		-	5	.000			
FY 2023 Plans: DLA is seeking additional clarification on the intent & recipient solutions for PFAS contamination Congressional Add. As clarification is received execution plans will be provided.							
Congressional Add: Steel Performance Initiative		-	13	.000			
FY 2023 Plans: Develop hybrid and Industry 4.0 manufacturing technologies a quantitative nondestructive testing (QNDT) to advance predictive performance							
	Congressional Adds Subtotals	-	18	.000			
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A							

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency										Date: March 2023		
Appropriation/Budget Activity 0400 / 3					R-1 Program Element (Number/Name)Project (Number/Name)PE 0603680S / Manufacturing Technology PTDM / 3D Tech Data Modernization / Based Enterprise					n / Model		
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
TDM: 3D Tech Data Modernization / Model Based Enterprise	0.000	0.000	39.544	9.676	0.000	9.676	9.855	10.042	10.155	10.361	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The three-dimensional (3D) Technical Data Modernization (TDM) / Model-Based Enterprise (MBE) includes efforts to improve and facilitate the exchange of engineering and logistics information among DLA, the Military Services, DLA industry partners and DLA customers. This LOE includes the Military Unique Sustainment Technology (MUST), the Defense Logistics Information Research (DLIR), and the Emergent Manufacturing Technology (EMT) portfolios. A primary focus of this SFA is to capitalize on the emerging "Model Based Enterprise" paradigm and the semantic web as an enabler to a logistics system that is smart and connected up and down the supply chain and across all DLA Customers and suppliers. A major focus is to transform DoD engineering data from two-dimensional paper-based products to three-dimensional computer-based models, and to develop processes to move from "electronic paper" (i.e. PDF files) to technical data files that can interface directly with industries' engineering systems. The benefits include shorter product introduction cycles, lower set up-costs for parts production and more economical small batch production. Objectives for this LOE include:

1. Transform technical data into modern, machine-usable, neutral formats: support DoD's digital modernization efforts and provide significant readiness improvements. 2. Create a model-enabled knowledge base shared among DLA, the Military Services and industry: streamline the delivery of accurate requirements and high-quality material and end-items throughout the supply chain.

The Military Unique Sustainment Technology (MUST) program addresses GAO Report 12-707 recommendations for DoD to establish a "knowledge-based approach" to define, communicate, and collaborate on military unique Combat Uniforms and Individual Equipment (CUIE) requirements. DLA has the responsibility to manage and maintain the technical requirements among the Services and the Defense Industrial Base. Currently there is no common environment for collaborating on new requirements among the stakeholders. The strategic objective of the DLA MUST program is to identify, develop, and adopt technologies that can significantly improve the joint process from transitioning new item development to DLA sustainment and operations. The Program focuses on technologies that will transform the military CUIE supply chain from an "electronic paper" (i.e. PDF/MS Word) based manual environment, into a knowledge-based model driven environment. This approach will result in seamlessly communicating military unique technical requirements throughout the end-to-end supply chain, leading toward a Model Based Enterprise.

The Defense Logistics Information Research (DLIR) program researches core technologies to improve the quality, security, and interoperability of logistics data acquisition and management to enable and streamline DLA operations. DLA enables transformation of business practices and methodologies as the data for weapons systems evolve from traditional formats and delivery methods (such as two-dimensional images and PDF formats) to newer, more innovative methods (such as three-dimensional solid models, object-oriented databases, service-oriented architecture (SOA) and Web 3C standards). This transformational shift for DLA is driven by the Model-Based Enterprise (MBE) approach, the way industry is delivering design and development data for weapon systems to the Military Services and the way the

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ag							
Appropriation/Budget Activity 0400 / 3	PE 0603680S / Manufacturing Technology P TDM rogram (ManTech) Base	ect (Number/Name) 1 / 3D Tech Data Modernization / Mo ed Enterprise					
Military Services in turn manage and provide the data to DLA. DLA Logistic (MSCs) are key stakeholders in the DLIR initiatives to modernize the representation of the terms of		DLA's Major S	ubordinate Co	ommands			
The EMT program addresses emerging and out of cycle requirements that a	always occur as DLA strives to maintain the readiness	of the aging w	eapon system	IS.			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024			
Title: Three-dimensional (3D) Technical Data Modernization (TDM) / Model	-Based Enterprise (MBE) (R&D LOE 2)	0.000	10.944	9.676			
Description: Funding and efforts for the 3D Tech Data Modernization / Modernization in FY 2023. FY 2022 efforts related to this LOE are outlined in the Received of SFA.							
FY 2023 Plans: The Military Unique Sustainment Technology II (MUST II) program focus is a using an Application Program Interface (API). The Interim Change Manage for capturing and managing Interim Changes (IC) to the technical requirement tools to incorporate ICs into the base models, and to extract technical require will work with the Services to promote the use of data formats compatible will document models will become the authoritative source for CUIE technical requires visibility to all stakeholders. These models can be efficiently managed (que supplying data directly to Combat Uniform and Individual Equipment (CUIE) processes will be reengineered to take advantage of the digital model data. Report. Prototype tools and interfaces will also be developed to improve dig	ment System (ICMS) tool will be a new development ents. MUST plans to develop more powerful AI based rements from the digital models. The MUST program ith the digital document model paradigm. The DML equirements and provide common accessibility and ried, analyzed, updated) and will be capable of test plans and manufacturing processes. Joint For example, use in the Product Quality Deficiency						
The Defense Logistics Information Research (DLIR) program will continue to Transformation (TDMT) efforts to determine IT architecture needs and to en compliance objectives and integrates with Military Services irrespective of p Management (DRM) project to improve the security of TDPs and support the for the "Catalog of the Future" (COTF). Finally, DLIR will collaborate with My thread leveraging the Air Force KC135 and the Army's Paladin Artillery Syst based, Product Lifecycle Management (PLM)/Product Data Management (P	sure DLA's MBE architecture meets/exceeds DOD latforms. DLIR will complete the Digital Rights e eventual development of functional requirements D focusing on cybersecurity and building the digital tems to include providing access to a low-cost, cloud-						
The Emerging Manufacturing Technology (EMT) program will continue to er advances that may be implemented in the nearer term, without degrading w <i>FY 2024 Plans:</i>							

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense L	-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency						
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/N PE 0603680S / Manufacturing Tech rogram (ManTech)		TDM /	t (Number/N 3D Tech Dat Enterprise	lame) a Modernizat	ion / Model	
B. Accomplishments/Planned Programs (\$ in Millions)			Γ	FY 2022	FY 2023	FY 2024	
The Military Unique Sustainment Technology II (MUST II) program "front end" to the MUST Knowledge Base. In this vision, MUST Kr Application Programming Interfaces as Items prepare for, and tran and the DML working prototype will be delivered and available for in the DML will continue to be expanded and the AI needed to ma will be enhanced. The major effort of integration into Military Serv undertaken.	nowledge Base tools and capabilities interface with nsition to DLA Sustainment. The ICMS tool workin transition into an operational capability. Technica ke the DML information available throughout the s	h PLM via ng prototy al data cor supply cha	pe ntent ain				
The Defense Logistics Information Research (DLIR) program will Transformation (TDMT) efforts to determine IT architecture needs compliance objectives and integrates with Military Services irrespo focusing on cybersecurity and building the digital thread completin formats, producing first articles, and demonstrating to the cogniza can be the authoritative TDP.	and to ensure DLA's MBE architecture meets/exe ective of platforms. DLIR will continue collaboratio ng the conversions of selected NSNs to 3D, model nt Engineering Support Activity (ESA) that the mo	ceeds DO n with Mx l-based del-basec	D D TDP				
The Emerging Manufacturing Technology (EMT) program will con advances that may be implemented in the nearer term, without de		ive techno	ology				
FY 2023 to FY 2024 Increase/Decrease Statement: No significant changes from FY 2023 to FY 2024.							
	Accomplishments/Planned Progr	ams Sub	totals	0.000	10.944	9.676	
		FY 2022	FY 20	23			
Congressional Add: AI based market research system		-	3.0	000			
FY 2023 Plans: Conduct an R&D pilot that applies AI to improve the second secon							
the contracting processes, and diversify and strengthen the suppl will provide a framework and blueprint to dramatically improve bot Industrial Base (DIB) at scale within the DOD.							
will provide a framework and blueprint to dramatically improve bot	h readiness and resiliency of the Defense	-	5.0	000			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	су			Date: March 2023
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/ PE 0603680S / Manufacturing Ter rogram (ManTech)		•	
		FY 2022	FY 2023	
demonstration will bring additional industry providers to the table and show inclin costs across the DoD.	ease in capability and reduction			
Congressional Add: Battery Grade Graphite		-	3.600	
FY 2023 Plans: The purpose of this additional effort is to reestablish domestic ATJTM isostatically molded graphite using a US supply chain and US manufact to qualify a new domestic source of raw materials and produce a qualification to After qualification testing and acceptance by customers, there will be a source to 3,000 tons per year of isostatically molded graphite as a drop-in replacement the end of this program, the US will again have a domestic source of strategical molded graphite billets used for rocket nozzles and ablative materials produced	turing facility. The project seeks atch of 8 tons of ATJ graphite. of ATJ at a capacity level of up t for the legacy ATJ material. At Ily important large isostatically			
Congressional Add: High performance magnets		-	5.000	
FY 2023 Plans: Focus would be on using CA funding for qualifying domestic N Production Qualification Plans for Defense Industrial Base: Excalibur, Peregrin Mining Company proposed a Magnet-to-Magnet recycling system that takes we appliances, reduces them to powder, and finally reforms them into new magnet or, better than starting materials. This process could alleviate supply risk in the of the conventional magnet supply chain.	e, JDAM + SDB Programs. Urban aste magnets from end-of-life is with magnetic properties like,			
Congressional Add: Hypersonic radomes and apertures		-	5.000	
FY 2023 Plans: In order to leverage ongoing Hypersonic technology developm MDA, and DARPA to accelerate manufacturing readiness of Hypersonic radom to achieving the rigorous performance and survivability requirements of Hypers of Manchester, NH, brings significant expertise to bear on several potential solutions and accelerate the development of Mentis Advanced Pre-Ceramic Comp leverage Mentis competencies in the: design, development, and production of RF Aperture design, characterization, and testing; and aerothermal platform demature material solutions to TRL / MRL 6 requirements and 3) demonstrate car component testing tech demonstration platform tests at LHMEL, AEDC; White Hypersonic Ox/Ox Requirements.	es/apertures that are essential onic weapons, Mentis Sciences, utions. Specifically, Mentis will 1) osite Radomes and Apertures, 2) Dx/Ox preforms and structures; sign, testing and analysis to pabilities and limits leveraging			
Congressional Add: Nanostructured iron nitride permanent magnets		-	7.000	
FY 2023 Plans: Niron Magnetics proposed the use of Iron Nitride as means of for the manufacture of high-performance permanent magnets. Iron Nitride is a				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Age	Priation/Budget Activity R-1 Program Element (Number/Name) PE 0603680S / Manufacturing Technology is rogram (ManTech) PE 0603680S / Manufacturing Technology is rogram (ManTech) FY 2022 FY 2022 rth free permanent magnet technology. A key differentiator to Niron's magnet technology is powder coating by Atomic Layer Deposition (ALD) in a fluidized bed reactor. ALD is a ground-breaking conditioning technology that provides two benefits to Niron's iron nitride magnets: 1) passivation of the rticle surface, preventing oxidation, and 2) magnetic isolation of the nanoparticles, improving their ability wagnetized. The unique characteristics of iron nitride include a magnetic strength higher than most				
Appropriation/Budget Activity 0400 / 3	PE 0603680S / Manufacturing Te			u mber/Name) Tech Data Modernization / Model erprise	
		FY 2022	FY 2023		
 particle coating by Atomic Layer Deposition (ALD) in a fluidized bed reactor. A powder conditioning technology that provides two benefits to Niron's iron nitric nanoparticle surface, preventing oxidation, and 2) magnetic isolation of the na stay fully magnetized. The unique characteristics of iron nitride include a magr grades of NdFeB permanent magnets. A new project that continues this work is in the process of being initiated. The 	LD is a ground-breaking de magnets: 1) passivation of the noparticles, improving their ability netic strength higher than most intent is to advance the technology				
and manufacturing readiness of non-rare earth containing iron nitride permane electric components and systems. A four-task program is currently envisaged.	•				
The first aims to identify alloying elements that would maximize iron nitride ma an electric machine design that incorporates iron nitride permanent magnets; iron oxide nano particles (IONPs) for reduction and nitriding at pilot scale (10 k scalable processes to reduce, nitride, and passivate IONPs. The final task is to magnets with an energy product of 15 MGOe.	The second task is to synthesize kg). The third task is to develop				
	Congressional Adds Subtotals	-	28.600		
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A					

Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 202	24 Defense	Logistics A	gency					Date: Marc	ch 2023	
Appropriation/Budget Activity 0400: <i>Research, Development, Te</i> <i>Advanced Technology Developme</i>		ntion, Defen	se-Wide I B	3A 3:	-	am Elemen 12S / Logisti	•	Name) h and Deve	lopment Te	chnology (L	.og R&D)	
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	95.775	12.325	13.663	16.580	-	16.580	16.896	17.179	17.464	17.794	Continuing	Continuing
EMM: Enhancing Analysis, Modeling, and Decision Support (formerly Analytic & Decision Support)	17.338	3.166	-	-	-	-	-	-	0.000	-	Continuing	Continuing
GLTD: Improving Logistics Processes (formerly Logistics Process)	29.061	5.528	-	-	-	-	-	-	0.000	-	Continuing	Continuing
04: Emergent Logistics R&D Requirements (formerly Innovative Products & Services for DLA Customers)	49.376	3.631	-	-	-	-	-	-	0.000	-	Continuing	Continuing
LOI: Logistics Operations Innovation	0.000	0.000	6.088	7.391	-	7.391	7.533	7.659	7.786	7.930	Continuing	Continuing
PAM: Predictive Analytics / Modeling & Simulation	0.000	0.000	3.872	3.914	-	3.914	4.013	4.100	4.187	4.286	Continuing	Continuing
SWM: Smart-Warehouse Modernization	0.000	0.000	3.703	5.275	-	5.275	5.350	5.420	5.491	5.578	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Logistics Agency (DLA) is responsible for providing to the Military Services, other Federal Agencies, as well as combined and allied forces, the full spectrum of logistics, acquisition and technical services. DLA sources and provides virtually 100 percent of the consumable items the military services need to operate – including food, uniforms, fuel and energy, medical supplies, construction and barrier materials, equipment, and more than 85 percent of the military's spare parts. DLA also provides logistics related services such as logistics information data management, the reutilization of military equipment, as well as documents automation and production services. DLA's Logistics Research and Development (Log R&D) program helps ensure that advanced logistics concepts and business processes are used to accomplish the agency's mission with the leanest possible infrastructure. Log R&D identifies the best commercial business practices and tailors them, as necessary, into the most effective business processes for the agency. Log R&D develops and demonstrates high risk, high payoff technology that provides a significantly higher level of support at the lowest possible costs.

Beginning in FY 2023, the DLA Log R&D Program Element shifts from three Strategic Focus Areas to three Lines of Effort (LOEs): Predictive Analytics, Modeling & Simulation (R&D LOE 3), Logistics Operations Innovation (R&D LOE 4), and Smart Warehouse Modernization (R&D LOE 5). These LOEs are closely aligned to

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Defense Logistics	s Agency	Date: March 2023
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)		nd Development Technology (Log R&D)
documented and tracked priorities specified in the most current DLA Strateg to achieve DLA's business goals of enhancing performance, reducing costs, transform systems and processes to improve data transparency, reliability, a capability align with the interim National Security Strategy (NSS) by emphas do business.	, and becoming more predictive and data and security for our employees, customer	driven. This critical capability also seeks to s, and suppliers. DLA's initiatives within this critical
- Predictive Analytics, Modeling & Simulation (R&D LOE 3): R&D efforts dev ML) to solve high-impact problems, improve business operations, and provid Plan Critical Capability C: Digital Business Transformation, these LOE effort and LOE 4: Modernized Acquisition and Supply Chain Management, suppor System Sustainment (WSS), portfolio of projects	de actionable strategies to inform busines is cut across DLA Strategic Plan LOE 1: \	ss decisions. Primarily focused on the DLA Strategi Warfighter Always, LOE2: Trusted Mission Partner,
- Logistics Operations Innovation (R&D LOE 4): R&D efforts to cultivate integraring warfighter readiness and weapons system sustainment. This LOE focuses of while also investment in cross-cutting supply chain efforts, to include fuel qui support the warfighter through the following portfolios: Energy Readiness P Management (SCM).	on supporting the DLA LOE 4: Modernize ality and alternative fuel sources, or eme	ed Acquisition and Supply Chain Management, orgent needs that impact DLA's ability to effectively
- Smart Warehouse Modernization (R&D LOE 5): R&D efforts to modernize technologies, and automation. This LOE is dedicated to one of the primary modernization through efforts within the Strategic Distribution and Disposition	focus areas of DLA's Critical Capability for	
Until the shift from SFAs to LOEs in FY 2023, DLA LOG R&D remains aligned Modeling, and Decision Support (EAMD), 2) Improving Logistics Processes	C	
 The EAMD SFA includes efforts to develop decision support tools, such as forecasting, and procurement, which support more effective and efficient res The ILP SFA includes efforts to develop and implement advanced technology 	sponses to emerging market and custome	er requirements.
- The ELR SFA includes efforts to support emergent Logistics R&D requirem SFA begins new projects in a timely manner without disrupting ongoing projects processes.		

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 I	Defense Logistics A	gency		Date:	March 2023
Appropriation/Budget Activity		R-1 Program Ele	ement (Number/Name)		
0400: Research, Development, Test & Evaluation, Defense-	Wide I BA 3:	PE 0603712S / L	ogistics Research and	Development Technolo	gy (Log R&D)
Advanced Technology Development (ATD)					
DLA's focus for this budget cycle highlights advanced capa					
Processes to lower the Agency's material acquisition and o					
Program Elements and multiple R&D LOEs, impacting acro	ess the DOD Joint D	efense Manufacti	uring Technology Panel	and DLA Enterprise log	gistics processes.
<u>3. Program Change Summary (\$ in Millions)</u>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	12.418	13.663	13.994	-	13.994
Current President's Budget	12.325	13.663	16.580	-	16.580
Total Adjustments	-0.093	0.000	2.586	-	2.586
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	0.338	-			
 SBIR/STTR Transfer 	-0.431	-			
 Internal Reallocation 	-	-	2.500	-	2.500
 Labor Inflation 	-	-	0.015	-	0.015
 Non-labor Inflation 	-	-	0.071	-	0.071

Change Summary Explanation

Internal Reallocation FY 2024: Logistics Operations Innovation (LOI) baseline was increased by \$1.000 million based on internal funding reallocation decision to establish R&D rapid innovation capability and support IT digital modernization priorities. Smart-Warehouse Modernization (SWM) baseline was increased by \$1.500 million based on internal funding reallocation decision to modernize DLA's warehousing and distribution processes by leveraging automation, Big Data, and predictive analytics to make data-driven decisions, improve productivity and cost effectiveness, and realize returns on investment as agency savings.

Exhibit R-2A, RDT&E Project Ju	nibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency								Date: March 2023			
Appropriation/Budget Activity 0400 / 3					R-1 Program Element (Number/Name) PE 0603712S / Logistics Research and Dev elopment Technology (Log R&D)Project (Number/Name) EMM / Enhancing Analysis, Modeling 					•		
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
EMM: Enhancing Analysis, Modeling, and Decision Support (formerly Analytic & Decision Support)	17.338	3.166	-	-	-	-	-	-	0.000	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Strategic Focus Area (SFA) funds developments in advanced analytical tools, modeling, and simulation of logistics and supply chain processes. These tools will improve DLA forecasting and procurement strategy decisions and lead to faster and more flexible responsiveness to emerging market and customer requirements. This SFA consists of two programs:

The Strategic Distribution & Disposition (SDD) Program collaborates with DLA Distribution and Disposition Services to identify legacy capabilities that are inadequate for emerging worldwide distribution and disposition requirements. A key objective of the SDD Program is to anticipate, assess, and meet the current and future Warfighter requirements by leveraging R&D to infuse innovation into solutions. Long-term objectives include mitigating the DOD Supply Chain Management high risk issues identified by the Government Accountability Office (GAO), 2018 (Inventory Management, Material Distribution and Asset Visibility).

*In FY 2023, this SFA, Enhancing Analysis, Modeling, and Decision Support (EMM), closes out. The SDD program shifts to the Smart-Warehouse Modernization (SWM) Line of Effort (see R-2A).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Enhancing Analysis, Modeling, and Decision Support	3.166	-	
Description: The Strategic Distribution and Disposition (SDD) program continued to lay the groundwork for DLA's Smart Warehouses. During FY22, SDD met with vendors and potential vendors, and continued research of the technologies required to implement smart warehousing solutions. The SDD program provided applied research, analytical and decision support to DLA Distribution and Disposition Services and provided support to the Distribution Modernization Program (DMP). Additionally, SDD will continue to engage with Industry, Department of Defense (DoD) sponsored Federally Funded Research and Development Centers (FFRDCs) and University-Affiliated Research Center Laboratories (UARCs) leveraging subject-matter expertise in key areas of research such as Blockchain, Artificial Intelligence, Machine Learning, Internet of Things (IoT), Augmented Reality, and Autonomous/Robotics systems. SDD will continue to incorporate Integrate Project Teams (IPT) for project collaboration and Integrated System Engineering concepts (test and evaluation) into Distribution projects.			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logis	Date: N	Date: March 2023			
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603712S <i>I Logistics Research and Dev</i> <i>elopment Technology (Log R&D)</i>	Project (Number/Name) EMM I Enhancing Analysis, Modeling, and Decision Support (formerly Analytic Decision Support)			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024	
 Completed the Phase I Small Business Innovative Research (SBIR) out DLA's acquisition approach for implementing AGV technology in th Hill, and DLA Distribution Center Corpus Christi which lack automated between tunnels and warehouses. Current material process is with for no plans to proceed to Phase II due to the vendor's low Technical Read SDD will revisit more Phase I research to provide a proof of concept to effectiveness of using AGVs to improve inventory efficiency. This projet - Completed the Phase I Small Business Innovative Research (SBIR) prove out DLA's acquisition approach for implementing AI technology is unable to predict when items and material arrives at its Distribution 1 inventory and material consequently increases lead times, operational no current plans to proceed to Phase II due to the low Technical Read participated in this research pilot. When funding levels are adequate S concept to ascertain the utility, feasibility, maintainability, and cost-effective the induction of inventory and material at the DLA Distribution - Completed the Phase II Small Business Innovative Research (SBIR) acquisition approach for implementing AR technology in the Warehouse prototype augmented reality system in a DLA warehouse environment feasibility, maintainability, and cost-effectiveness of using AR to impro- 	he Warehouse processes at the DLA Distribution Center I material technology such as AGVs to move material rklift and designated driver. This project concluded with adiness Level (TRL) 3. When funding levels are adequa to ascertain the utility, feasibility, maintainability, and con- ect concluded in FY22Q1. DLA Warehouse Artificial Intelligence (AI) case study to in the Warehouse processes. Currently DLA Distribution Warehouses ad this inability to predict the induction of I costs, and incurs human error. This project concluded diness Levels (TRLs) of 1 to 3 for the three vendors who SDD will revisit more Phase I research to provide a proc ectiveness of using AI to improve inventory efficiency at Centers. This project concluded in FY22Q4.	er ate st- o on with o of of nd s i lity, Q2.			
	Accomplishments/Planned Programs Sub	totals 3.166	-		
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u>					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agen		Date: March 2023	
Appropriation/Budget Activity	Project (N	umber/Name)	
0400/3	EMM / Enh	nancing Analysis, Modeling,	
	elopment Technology (Log R&D)	and Decisi	on Support (formerly Analytic &
		Decision S	Support)

D. Acquisition Strategy

The DLA R&D program is executed through Delivery Orders placed on Indefinite Delivery/Indefinite Quantity Contracts that resulted from competitive Broad Agency Announcements and through interagency agreements with the Military Services when it is cost effective and/or provides some technical advantage, e.g. improves the probability of successful transition. DLA also has a continuously open Broad Agency Announcement for Emerging Technologies.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency								Date: Mar	ch 2023			
Appropriation/Budget Activity 0400 / 3					am Elemen 12S I Logist Technology	ics Researd	h and Dev	Project (N GLTD / Im (formerly L	proving Log	jistics Proce	sses	
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
GLTD: Improving Logistics Processes (formerly Logistics Process)	29.061	5.528	-	-	-	-	-	-	0.000	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Improving Logistics Processes (ILP) Strategic Focus Area (SFA) encompasses R&D efforts within the Logistics Technology Research program, formerly Weapon System Sustainment (WSS), and the Acquisition Modernization Technology Research (AMTR) program to support DLA business functional units through applied research and development of advanced technologies to improve business processes and operational methods, leverage the application of leading edge logistics "outof-the box" concepts using disruptive technology business tools, and support DLA's technological transformation effort. To qualify for R&D funding, the R&D effort must develop and apply technology and processes over and above current baseline IT systems and continuous improvements efforts.

Although all DLA processes are in scope, the strategic focus for this budget cycle is in Procurement, Planning, Technical Quality and the Major Subordinate Commands.

Innovative process changes and new technologies will be researched in these areas to drive improvements to internal costs, reduce award delays, and improve material availability, supply chain security, demand forecasting and logistical planning. This will be accomplished through the use of Artificial Intelligence/Machine Learning (AI/ ML), blockchain technology, and research of emerging commercial best practices and technologies.

*In FY 2023, this SFA, Improving Logistics Processes (GLTD), closes out. The LTR program shifts to the Predictive Analytics / Modeling & Simulation (PAM) Line of Effort (see R-2A) and the AMTR program shifts to the Logistics Operations Innovation (LOI) Line of Effort (see R-2A).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Improving Logistics Processes (ILP)	5.528	-	-
 Description: The Logistics Technology Research program, formerly Weapon System Sustainment (WSS), conducted research to advance DLA's predictive analytics capabilities that included: Completed an assessment of quantum computing capabilities in government and industry. The program will continue to monitor this capability and pursue additional research as it progresses. Continued research into tools and best practices for developing sustainable metadata management processes and supporting organizational structures to harness the power of analytics and artificial intelligence (AI) to improve its operations. Completed the first phase of supply chain risk management research that provided insight on information available for supply chain illuminations and potential ways to use AI/ML to enhance supply chain risk management capabilities. A second phase started to expand on the AI/ML research. 			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	Date:	March 2023				
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name)Project (Number/Name)PE 0603712S / Logistics Research and DevGLTD / Improving Logistics Processeselopment Technology (Log R&D)(formerly Logistics Process)					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024		
- Initiated environmental testing for transparent armor to provide data to develo model that will predict transparent armor lifespan and allow for the purchase of - Initiated transition of a digital traceability capability to automate manual workfl Joint Certification Program (JCP), Enhanced JCP, Counterfeit Detection and A Control (TSC) Programs. The transition is expected to complete in FY2024.						
The Acquisition Modernization Technology Research (AMTR) program became fully operational during FY 2022 which began transition in FY 2021 for acquisition modernization efforts that were previously managed and executed under the Logistics Technology Research (LTR) program, formerly Weapons Systems Sustainment (WSS). The program continues earlier efforts to expand market intelligence capabilities (AMIDA) to the remaining DLA supply chains. The transition of the capability to Aviation is well underway, and the Energy pilot will begin in September 2022. Phase II of Contract Quality Control was also initiated, continuing research of commercial best practices for contract quality control (CQC) systems to recommend a state-of-the-art system for all DLA major subordinate commands. AMTR will continue collaboration efforts on the Integrated Manufacturing Readiness Logistics Support (IMRLS) Milestone 2 project which will test the ability of DLA to rapidly make parts by converting 2D tech data to CAD and using a pricing engine to solicit bids from a wide selection of vendors.						
	Accomplishments/Planned Programs Subt	tals 5.528	-	-		
 C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy The DLA R&D program is executed through Delivery Orders placed on Indefini Announcements and through interagency agreements with the Military Service probability of successful transition. DLA also has a continuously open Broad A 	s when it is cost effective and/or provides some	technical advanta				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency							Date: Mar	ch 2023				
Appropriation/Budget Activity 0400 / 3				PE 060371	am Elemen 12S / Logist Technology	ics Researd	h and Dev	04 I Emerg	nnovative P	ne) cs R&D Req Products & S		
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
04: Emergent Logistics R&D Requirements (formerly Innovative Products & Services for DLA Customers)	49.376	3.631	-	-	-	-	-	-	0.000	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Emergent Logistics R&D Strategic Focus Area (SFA) includes R&D efforts to develop new products and services for DLA customers in two programs:

The Energy Readiness Program (ERP) roadmap helps to achieve the operational energy strategy goals of increasing sources of supply, developing and implementing alternative fuels under the ERP.

The Supply Chain Management (SCM) program addresses emergent and out of budget cycle requirements and opportunities within DLA's supply chains. A key objective of the SCM Program is to collaborate with customers (DLA J-Codes and Major Subordinate Commands (MSCs)) to identify capability shortfalls that can be addressed through major research efforts. These R&D efforts strive to develop technology mitigation strategies that address current and anticipated problems within DLA's supply chains.

*In FY 2023, this SFA, Emergent Logistics R&D Requirements (04), closes out. The ERP and the SCM programs shift to the Logistics Operations Innovation (LOI) Line of Effort (see R-2A).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Emergent Logistics R&D Requirements	3.631	-	-
Description: The Energy Readiness Program (ERP) continued working with Military Service customers and technical offices to improve specifications and standards for fuel and additive quality, engage in modeling and simulation of the energy supply chain and identifying alternative energy sources for military customers. Accomplishments include:			
- Continued work on the Wood to Jet Fuel Program study with the University of Maine to the development of a biofuels capability able to support commercial and military fuels requirements through forestry feedstock material diverted from decreasing industries through the production of marketable coproducts for alternative/renewable fuel.			

Appropriation/Budget ActivityR-1 Program Element (Number/Name)Projection0400 / 3PE 0603712S / Logistics Research and Dev04 / J		Name)		
elopment Technology (Log R&D) (form	Project (Number/Name) 04 I Emergent Logistics R&D Requirements formerly Innovative Products & Services for DLA Customers)			
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024	
 Continued work on the Investigation of Waste-Based Feedstocks for Sustainable Aviation Fuel Production project with the University of Hawaii project that supports the production, adoption, and use of sustainable bio-based aviation fuel, a much-needed alternative to petroleum legacy fuels. Initial fuel streams of interest include construction and demolition waste and others of relevance to Defense Production Act projects. Completed Phase I and began Phase II of the Thermal Stability Heater Tube Evaluation project that investigates the maximum hydraulic fluid contamination level for fuels de-fueled from aircraft and identify the specification requirement(s) that are significantly impacted by fluids currently on the DoD qualified products list. Completed Phase I and began Phase II Small Business Innovation Research project for a Lubricating Oil Study to develop a screening tool using software technology that monitors lubricating oil conditions as it transits through the acquisition chain. Conditions are tracked from refinery/manufacturer to receipt/storage tanks by "fingerprinting" its physical properties, screening for anomalies, and flagging for borderline specification properties or out-of-tolerance conditions. The Supply Chain Management (SCM) program completed the BEMR Lab prototype demonstration of an Augmented Reality (AR) remote expert capability and continued work on the Advanced Modeling and Optimization of Supply Chains (AMOS) supply chain simulator in support of contingency operations. Additionally, SCM completed a study of available solutions that provide multi-tiered vendor supply chain management options for DLA's known NSNs with castings, forgings, and specialty metals and initiated efforts 				
to support the "greening" of selected DLA supply chain elements.				
Accomplishments/Planned Programs Subtotals	3.631	-	-	

D. Acquisition Strategy

The DLA R&D program is executed through Delivery Orders placed on Indefinite Delivery/Indefinite Quantity Contracts that resulted from competitive Broad Agency Announcements and through interagency agreements with the Military Services when it is cost effective and/or provides some technical advantage, e.g. improves the probability of successful transition. DLA also has a continuously open Broad Agency Announcement for Emerging Technologies.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency								Date: March 2023				
Appropriation/Budget Activity 0400 / 3				R-1 Program Element (Number/Name) Project (Number/Name) PE 0603712S / Logistics Research and Dev LOI / Logistics Operations Innov elopment Technology (Log R&D) LOI / Logistics Operations Innov				,	tion			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
LOI: Logistics Operations Innovation	0.000	0.000	6.088	7.391	-	7.391	7.533	7.659	7.786	7.930	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Logistics Operations Innovation Line of Effort (LOE) seeks to improve DLA supply chain performance and security through the integration of advanced technology and innovative processes within the DLA day-to-day business operations. Research in these areas drive improvements to internal costs, reduce award delays, and improve material availability, supply chain security, and logistical planning. This will be accomplished through the use of artificial intelligence/machine learning, blockchain technology, and research of emerging commercial best practices and technologies. In addition, out of cycle emergent technologies across all DLA supply chains and logistics processes are resourced in a timely manner without disrupting ongoing projects by funds reallocation. The objectives for this LOE include:

- 1. Secure supply chains: Improvements to the DoD Class III Bulk Fuel Petroleum, Oil and Lubricants supply system
- New or improved analytical methods to determine product quality of identify anomalies
- Renewable energy technologies for military and government use
- Enhanced military adoption and use of fuel products derived from petroleum alternatives
- 2. Technical Solutions for anti-counterfeiting detection: innovative solutions to prevent counterfeit parts in the logistical supply chain.
- Reduced supply chain vulnerabilities through low-cost anti-counterfeiting solutions

3. Integrated logistics and acquisition information that yields cost savings and shortens lead times:

- A "Supply Chain Digital Twin" capability to perform system-wide end-to-end supply chain optimization modeling and simulation
- Supply chain optimization, scenario evaluation, and risk assessment for contingency operations

- Supply chain sustainability: increase the use of renewable, recyclable resources; source materials and products that reduce negative impact on environment, human health, and depletion of non-renewable resources

- An enterprise market intelligence capability to optimize spending strategies and business outcomes
- An automated contract quality capability that will result in a higher percentage of contracts executable upon award and subsequently a reduction of Production Lead Time
- Improved e-commerce and supplier bidding systems

The Logistics Operations Innovation LOE includes R&D efforts to develop new products and services for DLA customers in three programs:

The Energy Readiness Program (ERP) roadmap helps to achieve the operational energy strategy goals of increasing sources of supply, developing and implementing alternative fuels under the ERP.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logis	Date: N	larch 2023			
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603712S <i>I Logistics Research and Dev</i> <i>elopment Technology (Log R&D)</i>	Project (Number/Name) LOI / Logistics Operations Innovation			
The Acquisition Modernization Technology Research (AMTR) progra the Logistics Tech Research (LTR) Program; however, because of th improve contract quality, and enable best value acquisitions, these e program in close coordination with DLA J7 moving forward.	ne increasing focus on DLA Acquisition modernization to	enhance market in	telligence cap	abilities,	
The Supply Chain Management (SCM) program addresses emergen of the SCM Program is to collaborate with customers (DLA J-Codes through major research efforts. These R&D efforts strive to develop chains.	and Major Subordinate Commands (MSCs)) to identify c	apability shortfalls t	hat can be ad	Idressed	
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024		
Title: Logistics Operations Innovation Line of Effort (R&D LOE 4)		-	6.088	7.39	
Description: Funding and efforts for the Logistics Operations Innova efforts related to this LOE are outlined in the R-2A for Improving Logi Technology Research (AMTR) program, and the R-2A for Emergent I Readiness Program (ERP) and Supply Chain Management (SCM) pr FY 2023 Plans: The Energy Readiness Program (ERP) program will continue working standards for fuel quality, engage in modeling and simulation of the e for Military Customers. ERP will focus on determining R&D solutions and operational requirements (e.g., thermal stability, storage stability, military unique fuels. With the current administration's increased focu products, the program's efforts to assist the military services in the qu specification requirements are anticipated to increase significantly.	stics Processes (GLTD) under the Acquisition Moderniza Logistics R&D Requirements (04) under the Energy rogram. g with the Service customers to improve specifications a energy supply chain and identifying alternative energy so for ongoing issues affecting fuel and fuel additive quality , ignition capability) and providing additional alternatives is and climate change initiatives and alternatives to petro	ation nd urces for bleum			
The Acquisition Modernization Technology Research (AMTR) program capabilities (AMIDA) to DLA supply chains. The transition of the capa begin in FY 2023. The IMRLS effort will continue, with plans to incorp which will be conducted during the 3rd milestone. Additionally, AMTF Acquisition Modernization Program groundwork study, including acces improved capabilities for the current DIBBS vendor bidding system.	ability to Energy will be completed and the L&M pilot will porate an IMRLS transition plan into the DLA enterprise R will investigate new projects that were addressed durir				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	Date: N	Aarch 2023			
Appropriation/Budget Activity 0400 / 3		ct (Number/Name) Logistics Operations Innovation			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024	
The Supply Chain Management (SCM) program will continue work on the Adva (AMOS) supply chain simulator in support of contingency operations and initiat visibility, dynamic network analysis, information mapping, and disposition techr	e feasibility studies in multiple areas including asse				
 FY 2024 Plans: The Energy Readiness Program (ERP) program will continue working with the standards for fuel quality, engage in modeling and simulation of the energy sup for Military Customers. ERP will focus on determining R&D solutions for ongoin and operational requirements (e.g., thermal stability, storage stability, ignition or military unique fuels. With the current administration's increased focus and clim products, the program's efforts to assist the military services in the qualification specification requirements are anticipated to increase significantly. The Acquisition Modernization Technology Research (AMTR) program will con intelligence capabilities to the DLA supply chains. Transition of the capability to Services will be completed in FY 2024. Other planned efforts include using Dig management tool to better align resources to requirements, and modernizing the The Supply Chain Management (SCM) program will begin transition of the Adv (AMOS) supply chain simulator in support of contingency operations and continetwork analysis, information mapping, and disposition technologies. 	poply chain and identifying alternative energy source in a subscription of alternative and fuel additive quality apability) and providing additional alternatives for nate change initiatives and alternatives to petroleur and certification of alternative fuels to meet militar tinue to focus on efforts to expand market b L&M and a pilot and transition at Disposition gital Twin / Digital Thread, implementing a mission ne cataloging process. anced Modeling and Optimization of Supply Chain	n y			
FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024: Logistics Operations Innovation (LOI) baseline was increased by \$1.0 decision to establish R&D rapid innovation capability and support IT digital mod					
	Accomplishments/Planned Programs Subtota	s -	6.088	7.391	
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A					

Exhibit R-2A, RDT&E Project J	ustification	: PB 2024 D	Defense Log	gistics Ager	псу					Date: Mare	ch 2023	
Appropriation/Budget Activity 0400 / 3					PE 06037	am Elemen 12S I Logist Technology	ics Researc				,	eling &
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
PAM: Predictive Analytics / Modeling & Simulation	0.000	0.000	3.872	3.914	_	3.914	4.013	4.100	4.187	4.286	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
 The focus of R&D LOE 3 is to de high-impact problems, improve l tools, such as modeling, simulat and efficient responses to emerge 1. Leverage technological solut 2. Data analytics integration for information. 3. Explore emergent technologi 	ousiness ope ion, and othe ging market a ions for data DLA, the mi	erations, and er analytics and custom analytics a litary servic	d provide ad to improve er requirem nd integration es and indu	ctionable st operational ents. The on for dema stry: allows	rategies for I strategy de objectives fo and projections businesses	optimized b ecision-maki or this LOE ons and sup s and vendo	ousiness dec ing, forecas include: oply chain ris ors to aggree	cisions. Th ting, and pr sk manager	rough the d ocurement, ment.	evelopment DLA will ac	t of decision chieve more	effective
B. Accomplishments/Planned	Programs (\$	in Million	s <u>)</u>						FY	2022 F	Y 2023	FY 2024
Title: Predictive Analytics, Mode	ling & Simula	ation Line o	f Effort (R&	D LOE 3)						-	3.872	3.914
Description: Funding and effort 2023. FY 2022 efforts related to Technology Research (LTR) pro	this LOE are											
FY 2023 Plans: The Logistics Technology Resea improvements to complement we continue exploration of blockcha investment through an internal b in FY 2022. In addition to development of Al/	ork initiated to in technology usiness proc ML models f	by the Joint y by identify cess assess for supply ch	Artificial Int ring high va ment; contii nain disrupt	elligence C lue use cas nue efforts	ommittee fo ses based of to improve s	ocused on lo n business i supply chair	ow, infreque need and po n risk manag	nt demand otential retu gement ider	rn on ntified			
mitigate risks. This research is e	xpected to c	ontinue into	FY2024.									

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	ю		Date: N	larch 2023			
Appropriation/Budget Activity 0400 / 3							
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024		
Complete research started in prior years and transition as applicable: Research process to register, analyze, and validate suppliers to reduce duplication, improving risk analytics to each program started late in FY22 will continue; develop transport management, data quality, and data curation capabilities.	ove timeliness, and the ability to tailor supply c	hain					
FY 2024 Plans: The Logistics Technology Research (LTR) program will continue predictive and research based on high value use cases identified by the agency leadership, a technology into DLA business processes to complement predictive analytics ca	nd research incorporating edge computing						
LTR will continue supply chain risk management research through exploration methods to store classified and unclassified data for supply chain risk analysis and mitigation capabilities will be explored.							
One or more blockchain pilot studies will be conducted based on use case rese	earch completed in FY2023.						
FY 2023 to FY 2024 Increase/Decrease Statement: No significant changes from FY 2023 to FY 2024.							
	Accomplishments/Planned Programs Sub	totals	-	3.872	3.914		
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u> <u>D. Acquisition Strategy</u> N/A							

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency										Date: March 2023			
Appropriation/Budget Activity 0400 / 3									umber/Name) art-Warehouse Modernization				
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost	
SWM: Smart-Warehouse Modernization	0.000	0.000	3.703	5.275	-	5.275	5.350	5.420	5.491	5.578	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

A. Mission Description and Budget Item Justification

The Smart Warehouse Modernization Line of Effort (R&D LOE 5) will assess and test cyber-secure smart-warehouse technologies to transform and modernize distribution and disposition operations. The objectives for this LOE include:

1. Increase productivity and efficiency through interconnected technologies and automation such as enhanced inventory management, materiel distribution, and asset visibility

2. Provide enhanced and cyber-secure operations

The Strategic Distribution & Disposition (SDD) Program collaborates with DLA Distribution and Disposition Services to identify legacy capabilities that are inadequate for emerging worldwide distribution and disposition requirements. A key objective of the SDD Program is to anticipate, assess, and meet the current and future Warfighter requirements by leveraging R&D to infuse innovation into solutions. Long-term objectives include mitigating the DOD Supply Chain Management high risk issues identified by the Government Accountability Office (GAO), 2018 (Inventory Management, Material Distribution and Asset Visibility).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Smart Warehouse Modernization Line of Effort (R&D LOE 5)	-	3.703	5.275
Description: Funding and efforts for the Smart Warehouse Modernization Line of Effort (R&D LOE 5) begins in FY 2023. FY 2022 efforts related to this LOE are outlined in the R-2A for Enhancing Analysis, Modeling, and Decision Support (EMM) under the Strategic Distribution and Disposition (SDD) program.			
<i>FY 2023 Plans:</i> The Strategic Distribution and Disposition (SDD) program will continue to provide applied research, analytical and decision support to DLA Distribution and Disposition Services and provide support to the Distribution Modernization Program (DMP). SDD will continue to engage with Industry, DOD sponsored FFRDCs and UARCs leveraging subject-matter expertise in key areas of research such as 5G Networks, Sensor Internet of Things (IoT), Blockchain, Quantum Computing, Artificial Intelligence/ Machine Learning (AI/ML), and leverage the benefits realized from proven research studies and pilot projects in the areas of AR, AS/RS, Performance Management, Automated Inventory, 3D Warehouse Mapping, and Autonomous/Robotics systems (e.g., Autonomous Guided Vehicles (AGVs), Autonomous Mobile Robots (AMRs), etc.). SDD will continue to incorporate IPTs for project collaboration and Integrated System Engineering concepts (test and evaluation) into Distribution projects.			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Age	ncy		Date: N	/larch 2023	
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603712S <i>I Logistics Research and Dev</i> <i>elopment Technology (Log R&D)</i>	Project (N SWM / Sm		Name) ehouse Mode	rnization
B. Accomplishments/Planned Programs (\$ in Millions)		F١	2022	FY 2023	FY 2024
During FY 2023 SDD plans focus on upgrading current data architectures to n the digital revolution through the exploration of the fundamental shifts in networ the 5Vs Concept: Volume – The need for high volume of data; Velocity – The Variety – The types of data (i.e., Policies, photographs, graphs, PDF/MS/Exce and trustworthiness of the data (cybersecurity); and Value – The need to enab include:	ork and wireless performance as classified with need to generate and process data at high spec el files, etc.); Veracity – The need for accuracy	ed;			
- 5G Network technology needed to enhance the connectivity and speed of me inventory management activities, material distribution activities, and asset visi					
- Sensor IoT technology applications to enhance DLA's data collection and im to create a smart warehouse where machines, systems, and humans commun warehouse floor. IoT supports the opportunity to obtain "Big Results" and to in contributes to deep learning.	nicate to coordinate and monitor progress on th	e			
- Blockchain to reduce the complexity of ordinary transactions and ensure data before new transactions are added to the network, eliminate or reduce paper p efficiencies, enhance the ability to more securely track/trace transactions, and cybersecurity.	processes, speed up transaction times and incr				
- Investigate Quantum Computing to make the evolution of "Big Data" an effect ever-increasing amounts of data being collected, stored, and disseminated, ar large sums of data, perform data mining functions, computing operations, and	nd more quickly ingest, compile, and analyze th				
- Artificial Intelligence/Machine Learning (AI/ML) to automate repetitive tasks, activities, eliminate the high labor costs for repetitive tasks, reduce the long leat to automate tasks based on the integrity of data, and enhance DLA's business perform repetitive tasks – i.e., data entry and transactions.	ad time to process repetitive tasks, implement A	AI/ML			
Additional FY 2023 plans include:					
- Conduct a Sequential Phase II B Small Business Innovative Research (SBIR out DLA's acquisition approach for implementing AR technology in the Wareho					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistic	s Agency	Date:	March 2023	
Appropriation/Budget Activity 0400 / 3		Project (Number SWM / Smart-Wa		rnization
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
management automation system is out of date to meet the increased de inventory adjustments and inventory labor costs. Through the use of imp processes are proposed using AR technology. This project will continue a DLA warehouse environment and will provide a proof of concept to as effectiveness of using AR to improve inventory efficiency. This project is - Conduct an Outdoor Inventory Management project using RollerBot (A management of the items stored externally to the Distribution Warehous information such as status of yard inventory. This project is scheduled for - Collaborate with the Naval Postgraduate School (NPS) in conjunction we to conduct a Fleet-informed Material Processing Center (MPC) Workload	broved methods for inventory management, innovative to develop a prototype augmented reality system in certain the utility, feasibility, maintainability, and cost- scheduled for completion in FY24Q2. MR) technology to augment the total inventory es which makes it difficult to obtain timely and accura or completion in FY23Q2. with the DLA Distribution Center, Norfolk, VA (DDNV) d Forecasting project to determine the unpredictable	te		
receipting workload for high priority and routine (PRI 1/2/3) Fleet materia workload creates non-seasonal spikes throughout the year that impact that Naval Station Norfolk/Hampton Roads area.				
FY 2024 Plans: The Strategic Distribution and Disposition (SDD) program will continue to support to DLA Distribution and Disposition Services and provide suppor SDD will continue to engage with Industry, DOD sponsored FFRDCs an areas of research such as 5G Networks, Sensor Internet of Things (IoT) Machine Learning (AI/ML), and leverage the benefits realized from prove AS/RS, Performance Management, Automated Inventory, 3D Warehous Autonomous Guided Vehicles (AGVs), Autonomous Mobile Robots (AM collaboration and Integrated System Engineering concepts (test and even	rt to the Distribution Modernization Program (DMP). d UARCs leveraging subject-matter expertise in key , Blockchain, Quantum Computing, Artificial Intelligen en research studies and pilot projects in the areas of e Mapping, and Autonomous/Robotics systems (e.g., Rs), etc.). SDD will continue to incorporate IPTs for p	AR,		
FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024: Smart-Warehouse Modernization (SWM) baseline was increase reallocation decision to modernize DLA's warehousing and distribution p predictive analytics to make data-driven decisions, improve productivity as agency savings.	rocesses by leveraging automation, Big Data, and	nent		
	Accomplishments/Planned Programs Subt	otals -	3.703	5.275

xhibit R-2A, RDT&E Project Justification: PB 2024 Defense Lo		Date: March 2023
ppropriation/Budget Activity 400 / 3	R-1 Program Element (Number/Name) PE 0603712S <i>I Logistics Research and Dev</i> <i>elopment Technology (Log R&D)</i>	Project (Number/Name) SWM / Smart-Warehouse Modernization
. Other Program Funding Summary (\$ in Millions)		
N/A		
temarks		
Acquisition Strategy		
N/A		

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Defense Logistics A										Date: Marc	ch 2023	
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)				R-1 Program Element (Number/Name) PE 0603720S <i>I Microelectronics Technology Development and Support (DMEA)</i>)	
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	1,248.690	202.475	207.333	144.707	-	144.707	147.473	148.370	149.623	152.720	Continuing	Continuing
004: Defense MicroElectronics Activity (DMEA)	1,248.690	202.475	207.333	144.707	-	144.707	147.473	148.370	149.623	152.720	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Microelectronics Activity (DMEA) mission is to leverage advanced technologies to provide microelectronics solutions across the entire spectrum of technology development and system acquisition phases. It is critical to National Security for the Department to maintain technological superiority through microelectronics solutions via partnerships with the Defense Industrial Base, and by alternative means when industry is unable or unwilling to provide them. DMEA provides an in-house capability to quickly develop and deliver timely, cost-effective, technically appropriate solutions to sustain weapon systems, to modernize their capabilities, increase their lethality, address new threats, and meet operational demands. DMEA augments its in-house capability through extensive industry and Government partnerships that enable streamlined access to a variety of microelectronics technologies and engineering services to enhance responsiveness, and that develop sources for advanced microelectronics solutions.

DMEA's capabilities are critical in an atmosphere of diminishing domestic semiconductor manufacturing capability and increasing worldwide supply chain risks. The Department has very little influence over the microelectronics industry; the defense market represents less than 0.1% share of the total global semiconductor market. Access to mainstream, State of the Practice (SOTP) and State of the Art (SOTA) technologies is therefore a major and growing challenge. Threats to defense microelectronics include counterfeiting, latent vulnerabilities, malicious insertions, reliability issues particular to military environments, consolidation and off-shoring of manufacturing, rapid obsolescence and diminishing technology availability coming from an unpredictable and unsecured supply chain. In addition, as the Department maintains its weapon systems longer than originally planned, extended use increases demand for sustainment and modernization, which further intensifies the need for DMEA's unique capabilities, as well as continued development, and incorporation, of quantifiable assurance mechanisms.

DMEA provides the Department with engineering expertise and laboratories to address the myriad of microelectronics issues and to meet military requirements across the entire spectrum of technology research and development, acquisition, and long-term support. DMEA applies its specialized capabilities to resolve microelectronics issues for hundreds of distinct Department programs across the acquisition lifecycle every year. In addition, DMEA assists the Combatant Commands (COCOMs) including Special Ops, Cyber, Intelligence, and the Radiation-Hard communities.

DMEA also manages the Trusted Foundry Program which provides the Department with access to SOTA microelectronics design and manufacturing capabilities with the added benefit of Trust when required. This program administers and manages a robust ecosystem of accredited suppliers that meet the Departments requirements for semiconductor assurance. This program provides the Department with the most advanced ASIC technology's available in a Trusted or ITAR assurance level. The program also provides for a Multi-Project Wafer (MPW) program that enables the DoD to transfer research and prototyping into production acquisition programs.

hibit R-2, RDT&E Budget Item Justification: PB 2024	Defense Logistics			Date:	March 2023	
propriation/Budget Activity			ement (Number/Name)			
0: Research, Development, Test & Evaluation, Defense anced Technology Development (ATD)	-Wide / BA 3:	PE 0603720S77	Aicroelectronics Technolo	gy Development and	Support (DM	EA)
	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024	Total
Program Change Summary (\$ in Millions)				<u>FT 2024 000</u>		
Previous President's Budget	160.096	139.833	143.442	-		3.442
Current President's Budget	202.475	207.333	144.707	-		4.707
Total Adjustments Congressional General Reductions 	42.379	67.500	1.265	-		1.265
Congressional Directed Reductions	-	-				
Congressional Rescissions	-	-				
Congressional Adds	49.000	67.500				
Congressional Directed Transfers	-	-				
Reprogrammings	-	-				
SBIR/STTR Transfer	-6.621	-				
 Labor Inflation 	-	-	0.671	-		0.671
 Non-Labor Inflation 	-	-	0.552	-		0.552
Program Increase	-	-	0.042	-		0.042
Congressional Add Details (\$ in Millions, and Inc	ludes General Re	ductions)			FY 2022	FY 2023
Project: 004: Defense MicroElectronics Activity (DM	ΛEA)					
Congressional Add: Qualified Discrete Parts					5.000	-
Congressional Add: GaN-on-Si RF Front-end					30.000	-
Congressional Add: On-Shore Test Site					9.000	-
Congressional Add: Silicon Carbide Application	S				5.000	-
		A · · · · · · · · · · · · · · · · ·	tronics			12.500
Congressional Add: Functional Transfer from lin	e 101, Trusted and	Assurea Microelec			-	12.000
Congressional Add: <i>Functional Transfer from lin</i> Congressional Add: <i>Advanced node semicondu</i>		Assured Microelec		-	-	
-	ctors	Assured Microelec			-	10.000
Congressional Add: Advanced node semicondu	ctors nics production	Assured Microelec			-	10.000 35.000 10.000
Congressional Add: <i>Advanced node semicondu</i> Congressional Add: <i>Enhanced RF microelectro</i>	ctors nics production		Congressional Add Subtot	als for Project: 004	- - - 49.000	10.000 35.000

PE 0603720S: *Microelectronics Technology Development* ... Defense Logistics Agency

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency										Date: March 2023		
Appropriation/Budget Activity 0400 / 3					PE 0603720S I Microelectronics Technolog				Project (Number/Name) 004 <i>I Defense MicroElectronics Activity</i> (DMEA)			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
004: Defense MicroElectronics Activity (DMEA)	1,248.690	202.475	207.333	144.707	-	144.707	147.473	148.370	149.623	152.720	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

DMEA maintains an in-house ability to quickly develop and deliver timely, cost-effective, technically appropriate solutions to sustain weapon systems, to modernize their capabilities, increase their lethality, address new threats, and meet operational demands. These funds also support DMEA's ability to partner with industry, other Government agencies, and academia to enable streamlined access to a variety of microelectronics technologies and engineering services.

These funds enable DMEA to provide increasingly rare government microelectronics design, fabrication, and test expertise to DoD programs. DMEA's knowledge of varying military requirements across a broad and diverse range of combatant environments and missions—along with its unique technical perspective—allows it to develop, manage and deliver novel, decisive, quick-turn microelectronics solutions for defense, intelligence, special operations, cyber and combat missions.

These funds allow DMEA to maintain and enhance critical, microelectronics design, aggregation, fabrication, post-processing, assembly, hardware assurance and analysis capabilities to ensure that the Department is provided with solutions that enable or maintain the warfighter's technological superiority over potential adversaries. These solutions use high mix, low volume, unique microelectronics that are endemic to military requirements but are not commercially available. In addition, funding provides for the development and sustainment support necessary to ensure availability of microelectronics technologies in accordance the Department's needs and facilitates the Trusted Supplier Accreditation program required by DoDI 5200.44.

The Department, other US Agencies, and the Intelligence Community require uninterrupted access to semiconductor processes to produce custom integrated circuits designed specifically for military purposes. DMEA, via the Trusted Access Office (TAPO), partners with industry to provide the required solutions, and the necessary access to commercial SOTA microelectronics semiconductor capabilities to meet confidentiality, integrity, availability, performance and delivery needs. If industry cannot or will not provide the required solutions, only then does DMEA provide the necessary solutions using in-house capabilities. A critical element required to enable continued success is DMEA's protection of the industry partners' valuable Intellectual Property (IP). DMEA is an agile, Government-owned-and-operated organization, providing the structure and confidence necessary to assure them that commercial IP is protected from potential competitors. This strategic and cooperative industry partnership approach allows DMEA to use industry-developed IP by acquiring, installing, and applying them toward meeting the immediate and long-term needs of the Department. This unique capability is essential to all major weapon systems, combat operations, and support needs. As such, DMEA serves the Department, other US Agencies, industry and Allied nations.

Programs that DMEA has recently provided critical support to include CH-53E Sea Stallion, Virginia, Class Submarines, Columbia Class Submarines, UH-60 Blackhawk, Air Force Air Combat Command, US Army Corps of Engineers, E-3 AWACS, Military GPS User Equipment, NASA Parker Solar Probe, Naval Research Laboratory High Power Microwave Office, among many others.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logis	stics Agency	Date: N	larch 2023		
Appropriation/Budget Activity 0400 / 3	Project (Number/Name) 004 <i>I Defense MicroElectronics Activity</i> (DMEA)				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024	
Title: Defense Microelectronics Activity Accomplishments/Plans		153.475	139.833	144.707	
FY 2023 Plans: DMEA will design, develop, and demonstrate microelectronics conceres operational problems. DMEA will apply advanced technologies to add asymmetric threats and to modernize and sustain aging weapon syst years by CCMDs, Special Operations, and the Intelligence Communi and modernizing its aging laboratory infrastructure, all to meet quick to can rely. DMEA will continue to act as the program manager for the T with access to state-of-the-art microelectronics semiconductor capab their confidentiality, integrity, availability, performance and delivery ne also provides the Services and other agencies with a competitive cad of their mission critical/essential systems for Trusted integrated circuic contracted with commercial sources to satisfy state-of-the-art semico to continue the vital supply of Trusted microelectronics, including the commercial state-of-the-art industry. In areas where Trust is not avail assurance pilots and frameworks as needed.	d performance enhancements in response to the newest tems. To meet the increased missions seen in the last set ty, DMEA will extend and refresh capability by recapitality turn solutions on which CCMDs and Special Operations Trusted Foundry Program and will provide the Department ilities with the added benefit of Trust, if necessary, to me eeds via the Trusted Access Program Office. The progra dre of accredited Trusted suppliers that can meet the nee it components. The Trusted Access Program Office has onductor requirements. DMEA will foster all viable alternation work of the DMEA Trusted Access Program Office with	everal zing nt eet im eds atives			
FY 2024 Plans: DMEA will design, develop, and demonstrate microelectronics conce operational problems. DMEA will apply advanced technologies to add asymmetric threats and to modernize and sustain aging weapon syst years by CCMDs, Special Operations, and the Intelligence Communi and modernizing its aging laboratory infrastructure, all to meet quick t can rely. DMEA will continue to act as the program manager for the T with access to state-of-the-art microelectronics semiconductor capab their confidentiality, integrity, availability, performance and delivery ne also provides the Services and other agencies with a competitive cad of their mission critical/essential systems for Trusted integrated circui contracted with commercial sources to satisfy state-of-the-art semico to continue the vital supply of Trusted microelectronics, including the commercial state-of-the-art industry. In areas where Trust is not avai assurance pilots and frameworks as needed. FY 2023 to FY 2024 Increase/Decrease Statement:	d performance enhancements in response to the newest tems. To meet the increased missions seen in the last set ty, DMEA will extend and refresh capability by recapitality turn solutions on which CCMDs and Special Operations Trusted Foundry Program and will provide the Department ilities with the added benefit of Trust, if necessary, to me eeds via the Trusted Access Program Office. The progra dre of accredited Trusted suppliers that can meet the nee it components. The Trusted Access Program Office has onductor requirements. DMEA will foster all viable alternation work of the DMEA Trusted Access Program Office with	everal zing nt eet im eds atives			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	ncy			Date: N	larch 2023			
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number PE 0603720S <i>I Microelectronics</i> <i>y Development and Support (DM</i>	Technolog	004 /	Project (Number/Name) 004 I Defense MicroElectronics Activity (DMEA)				
B. Accomplishments/Planned Programs (\$ in Millions)			[FY 2022	FY 2023	FY 2024		
No significant changes from FY 2023 to FY 2024.								
	Accomplishments/Planned Pro	grams Sub	totals	153.475	139.833	144.707		
		FY 2022	FY 2	023				
Congressional Add: Qualified Discrete Parts		5.000		-				
FY 2022 Accomplishments: Plans awaiting development.								
Congressional Add: GaN-on-Si RF Front-end		30.000		-				
FY 2022 Accomplishments: DMEA continued its efforts (phase 3) on scaling 200mm Gallium Nitride (GaN) on Silicon (Si) source at a high volume DMEA a								
Congressional Add: On-Shore Test Site		9.000		-				
FY 2022 Accomplishments: DMEA increased existing testing capacity to sup	port the needs of the Department.							
Congressional Add: Silicon Carbide Applications		5.000		-				
FY 2022 Accomplishments: Awarded a first Phase of an effort to investigate (Silicon Carbide) epitaxial growth and manufacturing capability at a domestic 2 accredited Trusted Supplier.								
Congressional Add: Functional Transfer from line 101, Trusted and Assured	Microelectronics	-	12	.500				
FY 2023 Plans: Funding to be used to supplement the TAPO MPW program.								
Congressional Add: Advanced node semiconductors		-	10	.000				
FY 2023 Plans: DLA is seeking additional clarification on the intent & recipient semiconductors Congressional Add. As clarification is received, a statement de provided.								
Congressional Add: Enhanced RF microelectronics production		-	35	.000				
FY 2023 Plans: Continuing TAPO's efforts (phase 4) on scaling and establishi Gallium Nitride (GaN) on Silicon (Si) source at a high volume DMEA accredited								
Congressional Add: Secure advanced on-shore test capability		-	10	.000				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency Date: March 2023								
Appropriation/Budget Activity 0400 / 3	PE 0603720S / Microelectronics 7	R-1 Program Element (Number/Name) PE 0603720S / Microelectronics Technolog y Development and Support (DMEA)						
		FY 2022	FY 2023					
FY 2023 Plans: Augmenting, moving, or increasing capacity to the Department.	o TAPO's existing secure enclave for the use of							
	Congressional Adds Subtotals	49.000	67.500					
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u>								
<u>D. Acquisition Strategy</u> N/A								

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Defense Logistics Agency								Date: March 2023				
Appropriation/Budget Activity 0400: Research, Development, Te System Development & Demonstr			se-Wide I B	A 5:	R-1 Program Element (Number/Name)5:PE 0605070S / DOD Enterprise Systems Development and Demonstration							
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	33.733	0.654	0.000	0.000	-	0.000	0.000	0.000	0.000	-	Continuing	Continuing
09: Enterprise Funds Distribution	33.733	0.654	0.000	0.000	-	0.000	0.000	0.000	0.000	_	Continuing	Continuing

A. Mission Description and Budget Item Justification

The mission of the DOD Enterprise Business Systems (DEBS) is to coordinate and enable business transformation efforts across the Department of Defense (DOD). DOD's business enterprise must be closer to its warfighting customers than ever before, and Joint military requirements drive the need for greater commonality and integration of business and financial operations.

B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	0.654	0.000	0.000	-	0.000
Current President's Budget	0.654	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency											Date: March 2023		
Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0605070S <i>I DOD Enterprise Systems D</i> <i>evelopment and Demonstration</i>				Project (Number/Name) 09 <i>I Enterprise Funds Distribution</i>				
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost	
09: Enterprise Funds Distribution	33.733	0.654	0.000	0.000	-	0.000	0.000	0.000	0.000	-	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

A. Mission Description and Budget Item Justification

Enterprise Funds Distribution (EFD) is a multi-service/multi-agency process improvement and modernization solution, initiated to provide full visibility of the OUSD(C) funds distributed through echelon I and II for the Military Departments, and at all levels for the Defense Agencies. Funds distribution by its nature is a key enabler of financial visibility within DOD enterprise systems. The concept of a fully visible enterprise funds distribution process serves as a reference where planned and coordinated funds development and execution takes place.

Within the current DOD environment, progress has been made streamlining a diverse set of stove-piped budget execution and funds distribution processes and systems. Efforts continue to improve the visibility of funding information, eliminate manual efforts and undue complexities to the management of budget authority, and to eliminate impediments in the flow of funding documents. The current environment relies heavily on manual processing and on disconnected standalone systems for the processing of Funding Authorization Documents (FADs) and reprogramming actions. This environment made the implementation of internal controls difficult, negatively impacted the accuracy and timeliness of information while making the processes of integrating and obtaining management information arduous.

The envisioned operational environment solves these problems by enabling lifecycle program value management in a web-based application utilizing an authoritative database with single-source data entry and automated workflow. Capabilities within this integrated environment will enable the automation of all funds distribution and funds control processes within OUSD(C) using authoritative and highly visible data. Specifically, capabilities include managing apportionments, distributing budget authority to the Military Departments and Defense Agencies, managing rescissions and continuing resolutions, creating and tracking reprogramming actions, and establishing program baselines and budget authority needed to support changes in funding priorities throughout the year.

The operational environment includes organizational elements down to the echelon II level responsible for managing DOD and Component appropriations operating in an unclassified environment. The web-based application provides pre-planning, apportionment, reprogramming, rescission, continuing resolution, reporting of enterprise-level funds control and distribution of appropriated funding.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024		
Title: Enterprise Funds Distribution (EFD)	0.654	0.000	-		
Description: EFD will distribute funds to the Military Departments and the Defense Agencies.					
FY 2023 Plans: Funding is no longer required as program was transitioned to DFAS in November 2021.					
FY 2023 to FY 2024 Increase/Decrease Statement:					
Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ager	су		Date: M	larch 2023	
---	--------------------------------------	-----------------------------	--------------------------------	------------	---------
Appropriation/Budget Activity 0400 / 5	-	t (Number/N terprise Fun	lame) ds Distributio	n	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024
The decrease from FY 2022 to FY 2023 is due to the program being removed	from the RDT&E portfolio.				
	Accomplishments/Planned Programs Sub	totals	0.654	0.000	-
C. Other Program Funding Summary (\$ in Millions)					

N/A

<u>Remarks</u>

D. Acquisition Strategy

The EFD strategy is to use a "single acquisition to full capability," commercial-off-the-shelf (COTS) solution (Momentum software). The effort is needed to ensure EFD is fully implemented for all appropriation funding data for the Military Services and Defense Organizations.

Appropriation/Budge 0400 / 5	t Activity	,			-	R-1 Program Element (Number/Name)Project (Number/Name)PE 0605070S I DOD Enterprise Systems D evelopment and Demonstration09 I Enterprise Funds Dist								ribution	
Product Developmer	it (\$ in Mi	illions)	ſ	FY 2	2022	FY 2	2023	FY 2 Ba	2024 Ise	FY 2 OC		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Savantage Solutions	Option/ FP	Savantage Solutions : Rockville, MD	14.158	-		-		-		-		-	0.000	14.158	14.158
TeraThink/CGI Corporation	C/FFP	TeraThink Corporation/CGI : Reston, VA	18.083	0.654	Dec 2021	-		-		-		-	Continuing	Continuing	Continuin
TeraThink Corporation	C/FFP	TeraThink Corp. : TeraThink Corporation, Reston, VA	1.492	-		-		-		-		-	0.000	1.492	1.492
Prior Year Contracts	Option/ Various	Multiple : Multiple	-	-		-		-		-		-	Continuing	Continuing	-
		Subtotal	33.733	0.654		-		-		-		-	Continuing	Continuing	N/A
<u>Remarks</u> Prior year contracts line inc	lude Savan	tage Solutions Option/Fl	Prior Years	FY	2022	d TeraThinl		FY 2		192 million. FY 2 OC		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contrac
		Project Cost Totals	33.733	0.654		-		-		-		-	Continuing	Continuing	N//
<u>Remarks</u>															

R-1 Program Element (Number/Name) Project (Number/Name) Project (Number/Name) 9 / Enterprise Funds Distribution 9 / Enterprise Funds Distribution 2020 FY 2021 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 TRANSITION TO DFAS (Nov 2021) TRANSITION Image: State S	5 5 PE 0605070S I DOD Enterprise Systems D evelopment and Demonstration 09 I Enterprise Funds Distribution FY 2020 FY 2021 FY 2022 FY 2023 FY 2025 FY 2025 prise Funds Distribution Image: Comparison of the system of th	00 / 5 PE 0605070S / DOD Enterprise Systems D evelopment and Demonstration PF 2020 FY 2021 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 terprise Funds Distribution ↓ TRANSITION TO DFAS (Nov 2021) PE 0605070S / DOD Enterprise Systems D 09 / Enterprise Funds Distribution 09 / Enterprise Funds Distribution	xhibit R-4, RDT&E Schedule Profile:	PB 2024 Defense	Logistics Agenc	-					7	Date: March 2023	
TRANSITION TO DFAS	prise Funds Distribution 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化	terprise Funds Distribution	opropriation/Budget Activity 00 / 5			PE 0	605070S /	DOD En	terprise Sy	l ame) /stems D			ion
TO DFAS	ひ TRANSITION TO DFAS (Nov 2021)	ひ TRANSITION TO DFAS (Nov 2021)		FY 2020 FY 202	1 FY 2022	FY 2023	FY 2024	FY 2025	FY 2026				
TO DFAS	TO DEAS (Nov 2021)	TO DEAS	nterprise Funds Distribution										
					TO DFAS								
			Enterprise Funds Distribution (EFD)										

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Defense Logistics Agency		Date: March 2023
	 	umber/Name) prise Funds Distribution

Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Wave 1 Deployment				
Development Activities using Momentum Financials ERP	1	2017	4	2018
Wave 2 Deployment				
The program will continue the development and deployment of EFD post Wave 2 requirements based on user group migration strategy. Also deploy additional accounts and dev activities.	1	2019	4	2019
Wave 3 Deployment				1
The program will continue the development and deployment of EFD post Wave 3 requirements based on user group migration strategy. Also deploy additional accounts and dev activities.	1	2020	4	2020
Post Waves 1, 2 and 3 Development				
SCRs, Momentum Upgrade Development, Break-Fix Development	1	2021	4	2021
Transition to DFAS				
Transition to DFAS in November 2021	1	2022	1	2022
Post Transition to DFAS		<u>.</u>		
Post transition SCRs, Break-Fix Development	1	2022	4	2022

Exhibit R-2, RDT&E Budget Item	n Justificat	ion: PB 202	24 Defense	Logistics A	gency				-	Date: Mare	ch 2023	
Appropriation/Budget Activity 0400: Research, Development, Te	ot ? Evolue	tion Dofon	aa Wida I E	ол <i>Б</i> .		am Elemen				aial System		
System Development & Demonstr			ise-wide i c	DA 5.	PE 000500	30S I Defen	se Agencies	s milialive (I	DAI) - Fillar	iciai Systeri	1	
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	225.964	31.136	23.171	32.629	-	32.629	32.524	32.358	32.798	33.560	Continuing	Continuin
01: Defense Agencies Initiative - Financial System	225.964	31.136	23.171	32.629	-	32.629	32.524	32.358	32.798	33.560	Continuing	Continuir
Program MDAP/MAIS Code: Project MDAP/MAIS Code(s): 04	·91		1	1	1	1	I		1	1	1	
A. Mission Description and Bud	aet Item Ju	ustification	1									
The Defense Agencies Initiative (-			se Busines	s System is	s an Enterpr	ise Resourc	e Planning	(FRP) base	ed program	that was or	iginally
created to solve Defense Agency												
software. DAI's mission is to prov												
accurate, timely, and authoritative												
Increments 1 and 2 were docume												
including Defense Working Capita								oo. merem				abiiities
		ŗ		FY 2022	FY 202		Y 2024 Ba		FY 2024 O	20	FY 2024 To	tal
B. Program Change Summary (<u>s)</u>							<u>F 1 2024 O</u>	<u></u>		
Previous President's Budg				32.254	23.17		25.7			-	25.7	-
Current President's Budge	t			31.136	23.17		32.62			-	32.6	
Total Adjustments				-1.118	0.00	00	6.9	10		-	6.9	910
 Congressional G 				-		-						
 Congressional D 	irected Red	luctions		-		-						
 Congressional R 	escissions			-		-						
 Congressional A 	dds			-		-						
 Congressional D 	irected Trar	nsfers		-		-						
Reprogrammings	5			-		-						
SBIR/STTR Tran	nsfer			-1.118		-						
 Program Increas 	е			-		-	6.74	49		-	6.7	749
Non-Labor Inflati				-		-	0.10	61		-	0.1	161
Change Summary Explai	nation											

Program Increase FY 2024: Migrates DAI to a secure cloud hosting, boot the scale and scope of DAI's infrastructure to support the United States (U.S.) Marine Corps (USMC) and Naval Special Warfare (NSW) system requirements; and provide specialized audit services to DAI customers.

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2024 D	efense Log	istics Agen	су					Date: Marc	ch 2023	
Appropriation/Budget Activity 0400 / 5					PE 060508	am Element 30S / Defens ancial Syste	se Agencies			umber/Nan se Agencies	ne) s Initiative -	Financial
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
01: Defense Agencies Initiative - Financial System	225.964	31.136	23.171	32.629	-	32.629	32.524	32.358	32.798	33.560	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 0491												

A. Mission Description and Budget Item Justification

DAI mission is to deliver an auditable, CFO Act compliant business environment for Defense customer organizations providing accurate, timely, authoritative financial data supporting the DoD goal of standardizing financial management practices, improving financial decision support, and supporting audit readiness. DAI has replaced multiple non-compliant financial management systems supporting diverse operational functions and the warfighter in decision-making and financial reporting. DAI currently provides the capability to produce timely, auditable reports as noted in four consecutive annual unmodified System and Organization Controls report (SOC-1).

The primary goal is to deploy a standardized system solution to improve overall financial management and comply with BEA, Standard Financial Information Structure (SFIS)/Standard Line of Accounting (SLOA), and Office of Federal Financial Management (OFFM) requirements. Common business functions within budget execution include the Department's BEA End to End (E2E) business processes: Cost Management; Budget to Report (B2R); Procure to Pay (P2P) with enhancements facilitating SFIS/SLOA and DoD procurement data standards and direct Treasury disbursing; Acquire to Retire (A2R) (real property lifecycle accounting only); Hire to Retire (H2R) (Time and Labor reporting and absence management only); Order to Cash (O2C); Proposal to Reward (P2R) (Grants financial management and accounting only; and a phased implementation of Governance, Risk, and Compliance (GCR) capabilities supporting audit readiness). Future Defense Working Capital Fund accounting, and Re-Sale Accounting (for Defense Commissary Agency (DeCA).

The DAI program modernizes the Defense Agencies' financial management processes by streamlining financial management capabilities, addressing financial reporting material weaknesses, and supporting financial statement auditability for the majority of agencies, field activities and non-Service organizations across the DoD. DAI supports a transformation of budget, finance, and accounting processes across participating defense agencies to help improve the quality of financial information, supporting financial auditability and decision-making. The DAI business solution, once fully implemented, will provide a near real-time, web-based system from a ".mil" environment of integrated business processes that will enable in excess of 84,000 Defense Agency financial managers, program managers, auditors, and Defense Finance and Accounting Service (DFAS) representatives to make sound financial business decisions.

The DAI implementation approach deploys a standardized system solution that is consistent with requirements in the Federal Financial Management Improvement Act (FFMIA) and the DoD Business Enterprise Architecture (BEA), while leveraging the out-of-the-box capabilities of the selected Commercial-Off-the-Shelf (COTS) product, Oracle e-Business Suite (EBS), Release 12.2.8 (R12). DAI implemented an Oracle Office of Management and Budget Financial Systems Integration Office (FSIO) qualified COTS financial management business solution with common business processes and data standards. The Program Management Office (PMO) will not develop any objects that are included in core COTS software or services (i.e. vendor data from Federal authoritative sources).

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistic	cs Agency	Date:	March 2023	
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605080S <i>I Defense Agencies Initiative</i> (DAI) - Financial System	Project (Number) 01 / Defense Ager System	,	- Financial
DAI supports the FY22-26 Department of Defense Financial Manageme Goal 3, Increases the integrity of financial results; Strategic Goal 4, Sim driven, fiscally informed decision making.				•
DAI is currently implemented at 26 Defense organizations and the Offic responsible for operational sustainment of the system. Funds are required accomplish the remaining capability developments and organizational in	ired for additional government and contractor suppor	t, licenses, mainten	ance, and har	dware to
 The benefits of DAI are: Labor efficiencies (entering data once) and shared across all business Reduction in contractor support; Financial visibility (Access to real-time financial data transactions); Enabling agility and resilience in execution (No silos – anyone/anywhere) 		nodern system;		
 Retiring legacy systems; Shared common business processes and employment of Federal/DoE Procurement Request Data Standard (PRDS)); and United States Standard General Ledger (USSGL) Chart of Accounts to Reducing reliance on custom Reports, Interfaces, Conversions, Exten Enhanced Internal controls to ensure accurate data, regulatory compli Significantly reduced data reconciliation requirements; and Enhanced analysis and decision support capabilities. 	D Enterprise data standards (i.e., SFIS, SLOA, Procu resolve DoD material weaknesses and deficiencies. isions, Forms and Workflows by leveraging application		ard (PDS) and	1
The DAI PMO also provides system integration services that include: a required Reports, Interfaces, Conversions, Extensions, Forms and Wor conversion, user acceptance, operational); training (train the trainer/cha perform well with an integrated enterprise resource planning system); s studies, coordination/analysis support.	kflows (RICE-FW) objects; testing (cyber security, in ange management preparing the users for the cross f	tegration, functional functional skills and	, performance awareness ne	e, eeded to
DLA Acquisition (J7) serves as the DAI Milestone Decision Authority (M program manager, and PMO staff. The DAI PMO relies on J7 for most production, test and development, as well as Continuity of Operations (performance testing. The DAI PMO serves as systems integrator.	contracting support. Defense Information Systems A	gency (DISA) data	centers provid	le
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024

Title: Defense Agencies Initiative (DAI) - Financial System

31.136

32.629

23.171

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agency		Da	te: March 2023	
0400/5 PE	1 Program Element (Number/Name) E 0605080S / Defense Agencies Initiative AI) - Financial System	Project (Num 01 / Defense / System	b er/Name) Agencies Initiativo	e - Financial
B. Accomplishments/Planned Programs (\$ in Millions)		FY 20	22 FY 2023	FY 2024
 Description: In FY 2022, the DAI PMO accomplished: Deployed in 29 organizations at over 4,500 locations worldwide, including 117K performs and the PY22 DLA SSAE-18 Exit Conference (best our Deployment of Release 4 to over 72K current users on 11 October. Deploying full financial capability to the United States Marine Corps (USMC) on 8 Development of necessary work instructions and training materials. Supporting the DoD RMF process to support actions included in the Authorizing O Milestones including an independent FISCAM Test of Design/Test of Effectiveness Authority to Operate. Continued maturity the GRC capabilities by expanding Enterprise controls: Config supporting audit findings, recommendations & CAPs. Maintaining technical operations including: application of DISA Security Technical currency for servers operating systems, middleware & applications including patche Data Center enclaves; & the daily operation of several interfaces with external syste Addressing System (DAS), as well as established Federal Enterprise system web Obtaining an interim Interoperability Certification or an Authority to Connect to the Conducting regular adversarial assessments, Risk Management Framework (RMF and a Cooperative Vulnerability and Penetration Assessment. Transition to the Cloud Hosting: On 9 Dec 2021 the DAI Functional Sponsor, OUS migration of DAI hosting from DISA Data Centers to a commercial cloud hosting sol expected to increase scalability of DAI for future customer expansion and improves s The DAI PMO partnering with the Office of Under Secretary of Defense (OUSD), C (RPA) Team, and DAI user organizations to develop automations for many routine f and process deviations among users. These automations have increased data qua increasing DAI's auditability, reducing the number of Help Desk tickets received, an work on higher-value tasks. Developing Twenty-two (22) additional attended and unattended automation	for Attestation Engagements (SSAE) 18 Au utcome). B November. Official's (AO) required Plan of Actions and s to result in an AO decision to award an guration, Access, Prevention & Transaction I Implementation Guides, hardware & softw es; overseeing internal processes within th tems leveraging DLA Defense Automated o services. e DoD Global Information Grid. IF) continuous monitoring including code so SD(C) signed a decision memo directing th blution by October 2023. This migration is system performance. Comptroller's Robotic Process Automation financial management entries - reducing c ality and decreased process errors, thereb nd freeing DAI PMO sustainment resources at are currently in development or User	is vare e cans, e licks		

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Ag	ency		Date: N	larch 2023	
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605080S / Defense Agencies Initiative (DAI) - Financial System Project (Number/Name) 01 / Defense Agencies Initiative - Fina System ograms (\$ in Millions) FY 2022 FY 2023 FY 3023 ustomer organizations in Oct 2023. and BPR, Inc 3 Rel 6 Organization mocks and SE technical reviews. undergo audit by helping them with answering auditor RFIs and helping them locate required approach with all that use DAI. is to support additional users and increased data storage costs based on application data FY 2022 FY 2023 FY 3023 endent audit, SSAE-18, and support DLA Audit Readiness Office in developing an assertion d resolve any identified NFRs. all the operations software and hardware in the suite. DAI PMO will use data centers' SSAE 18 put for the annual DLA SOC 1 Report. Support development of some cloud hosting activities Bata Strate Strat		- Financial		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024
 artifacts to maintain consistency of approach with all that use DAI. Maintain Application User Licenses to support additional users and increase growth. Conduct a service provider, independent audit, SSAE-18, and support DLA package supporting DLA SOC 1 and resolve any identified NFRs. have DISA data centers maintain all the operations software and hardware SOC 1 Report as the basis for its input for the annual DLA SOC 1 Report. S in preparation for migration. Conduct BEA compliance assessment against the current version (v11.2 for assessment portal and conduct BPR for newly joining agencies. Resolve critical software errors and critical statutory/regulatory enhancement identified during BPR, BEA compliance assessment and the Audit generated Support RMF process maintaining activity to support actions included in the Expand the use of RPA scripts to increase speed of data entry, ensuring data requisition life cycle. Continue on-going efforts to support departmental efforts for ICAM access of Support the OSD Initiatives including MyTravel and G-Invoicing. 	ering auditor RFIs and helping them locate requi ed data storage costs based on application data Audit Readiness Office in developing an asserti in the suite. DAI PMO will use data centers' SSA upport development of some cloud hosting activ r compliance) document results in the Department nts that affect operations and incorporate chang corrective action plans. AO's required POA&M to maintain the ATO. ata accuracy from data entry through the entire	ion AE 18 ities ent's			
FY 2024 Plans: During FY 2024, DAI will transition the application from an on-premise DISA environment which will provide improved system performance and enable co customer growth. For FY 2024 and beyond DAI will also continue to develop Invoicing, MyTravel Implementation, Travel Payment Gateway, and Identity (est-effective scalability to respond to future poten and deploy Departmental initiatives to include (tial			
FY 2023 to FY 2024 Increase/Decrease Statement: The increase from FY 2023 to FY 2024 is due to DAI Cloud Hosting Migration for system development and deployment support in the following areas: major management, configuration management, new user training, and performance in the following areas are supported as the following areas are suppor	or development, new interfaces, requirements	d			
	Accomplishments/Planned Programs Sub	totals	31.136	23.171	32.629
			I		

Exhibit R-2A, RDT&E Project Justification: PB 2024 [Defense Logistics Agency	Date: March 2023
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605080S / Defense Agencies Initiative (DAI) - Financial System	Project (Number/Name) 01 <i>I Defense Agencies Initiative - Financial</i> <i>System</i>
C. Other Program Funding Summary (\$ in Millions)		
N/A		
<u>Remarks</u>		
D. Acquisition Strategy		
	y/incremental strategy including major annual software releases to a egulations and policies as governed by its Functional Sponsor.	accommodate upgrades as required by

DAI Increments 1 and 2 are in sustainment. When Increment 3, Release 1 went live in October 2018, it subsumed Increment 2; therefore, only one DAI production baseline exists at any point in time.

Appropriation/Budge 0400 / 5	et Activity	1				PE 0605080S / Defense Agencies Initiative				Project (Number/Name) 01 <i>I Defense Agencies Initiative - Finand</i> <i>System</i>				nancial	
Product Developmer	nt (\$ in Mi	illions)		FY 2	2022	FY 2	2023		2024 Ise		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DAI Application Development Support Services	C/CPFF	Application Development support to DAI : Virginia	-	19.876	Mar 2022	18.474	Mar 2023	27.629	Mar 2024	-		27.629	Continuing	Continuing	, –
Requirements Management (RM) Support	MIPR	DISA : Fort Meade, MD	1.790	0.378	Oct 2021	0.389	Oct 2023	-		-		-	Continuing	Continuing	, Continuin
DCPDS/DAI Interface File Changes	MIPR	DLA Finance : Fort Belvoir, VA	0.053	0.193	Feb 2022	-		-		-		-	Continuing	Continuing	
Prior Year Contracts	Option/ Various	MULTI : MULTI	192.275	0.000		-		-		-		-	-	-	N/A
		Subtotal	194.118	20.447		18.863		27.629		-		27.629	Continuing	Continuing	N/A

Global Model Compliance C/FFP CACI: Chantilly, VA \$41.422 million; Global Model P2P C/FFP IBM: Bethesda, MD \$32.018 million; Global Model A2R C/CPFF CACI Inc Federal: Chantilly, VA \$18.845 million; DAI Data Conversion Support Option/FFP Terathink: Reston, VA \$2.857 million; Oracle Time & Labor Software License and Maintenance C/FP Mythics, Inc: Virginia Beach, VA \$1.020 million; Global Model CAD C/CPFF CSC: Falls Church, VA \$3.205 million; Jaws Professional Licenses C/FFP Immix: McLean, VA \$0.017 million; Oracle Advanced Compression Licenses \$1.622 million; Oracle Contract Lifecycle Management Licenses C/FFP Mythics Inc: Virginia Beach, VA \$7.408 million; Oracle Licenses MIPR DISA: Pensacola, FL \$5.446 million; Kurzweil 5000 508 Assistive Tech Licenses C/FFP Envision Technology Inc: Bethesda, MD \$0.008 million; Dragon Naturally Speaking 508 C/FFP Red River Computer Co: Claremont, NH \$0.007 million; DISA/DITCO Delinquent Balance MIPR DISA DITCO: Scott AFB, IL \$0.017 million; and DBTA Section 1553 MIPR DFAS: Columbus, OH \$0.377 million.

Support (\$ in Million	s)			FY 2	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Estimated SBIR/STTR:	TBD	TBD : TBD	4.365	1.118	Jun 2022	0.817	Jun 2023	-		-		-	Continuing	Continuing	Continuing
		Subtotal	4.365	1.118		0.817		-		-		-	Continuing	Continuing	N/A

Remarks

SIBR/SITTR Tax is taken off the topline

Exhibit R-3, RDT&E Appropriation/Budg 0400 / 5	-					R-1 Program Element (Number/Name) PE 0605080S <i>I Defense Agencies Initiative</i> (DAI) - Financial System					Project (Number/Name) 01 <i>I Defense Agencies Initiative - I</i> <i>System</i>				inancial
Test and Evaluation	(\$ in Milli	ons)		FY 2	2022	FY	2023		2024 ase	FY 2024 OCO		FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DISA Hosting: Test and Development	MIPR	DISA : Pensacola, FL	18.077	6.773	Oct 2021	3.000	Oct 2022	4.000	Oct 2023	-		4.000	Continuing	Continuing	Continuin
Interoperability	MIPR	JITC : Fort Meade, MD	4.400	1.226	Oct 2021	0.079	Oct 2022	0.200	Oct 2023	-		0.200	Continuing	Continuing	Continuin
Performance and Regression Testing	MIPR	JITC : Fort Huachuca, AZ	4.580	1.422	Oct 2021	0.412	Oct 2022	0.800	Oct 2023	-		0.800	Continuing	Continuing	Continuin
DCPS Testing	MIPR	DFAS : Indianapolis, IN	0.424	0.150	Oct 2021	-		-		-		-	Continuing	Continuing	g Continuing
		Subtotal	27.481	9.571		3.491		5.000		-		5.000	Continuing	Continuing	g N/A
<u>Remarks</u> Previous MIPR actions: O	perational Te	est and Evaluation, \$4.74	Prior Years	FY 2	2022	FY	2023		2024 15e	FY 2 OC	2024 CO	FY 2024 Total	Cost To Complete		Target Value of Contract
		Project Cost Totals	225.964	31.136		23.171		32.629		-		32.629	Continuing	Continuing	n/A
<u>Remarks</u>															



PE 0605080S: *Defense Agencies Initiative (DAI) - Fina...* Defense Logistics Agency

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Defense Logistics Agency				Date: March	h 2023
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Num PE 0605080S <i>I Defense Age</i> <i>(DAI) - Financial System</i>		Project (Nu 01 / Defens System		e) Initiative - Financial
Scl	nedule Details				
		Start		En	d
Events by Sub Project	Quarter	Year	Q	uarter	Year
Defense Agencies Initiative (DAI)					
DAI See schedule exhibit for more details	1	2018		4	2025

Exhibit R-2, RDT&E Budget Iter	n Justificat	ion: PB 202	24 Defense	Logistics A	gency					Date: Marc	ch 2023	
Appropriation/Budget Activity 0400: Research, Development, Te RDT&E Management Support	400: Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support				R-1 Progra PE 060550		BIR)					
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	68.353	11.500	0.000	0.000	-	0.000	0.000	0.000	0.000	-	Continuing	Continuing
01: Small Business Innovative Research	68.353	11.500	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

Defense Logistics Agency's (DLA's) ability to deliver Americans the right logistics solution in every transaction requires more than successful management of the Agency's wholesale supplies and suppliers. It requires supply chain excellence. Our military's ability to generate and sustain combat readiness indefinitely, anywhere on the globe requires that DLA-managed materiel flow seamlessly and as needed from the nation's industrial base to where it is ultimately used.

DLA's Small Business Innovative Research (SBIR) program seeks to solicit innovative research and development proposals from the small business community to address DLA's strategic and operational requirements. All selections shall demonstrate and involve some technical risk with yet to be determined technical feasibility. Phase I proposals should demonstrate the feasibility of the proposed technology and provide a strong business case for Phase II investment for a prototype or at least a proof-of-concept demonstration. A favorable return on investment and commercialization potential have a strong influence on Phase II selections.

B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	11.500	0.000	0.000	-	0.000
Current President's Budget	11.500	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			

Change Summary Explanation

FY 2022:

Defense Logistics Agency (DLA) SBIR/STTR taxes were \$4.879 million and Defense Microelectronics Agency (DMEA) taxes were \$6.621 million.

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2024 C	efense Log	istics Agen	су					Date: Mare	ch 2023	
Appropriation/Budget Activity 0400 / 6							lumber/Name) Business Innovative Research					
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
01: Small Business Innovative Research	68.353	11.500	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Small Business Innovation Program (SBIP) explores innovative concepts pursuant to Public Law 106-554 (Small Business Reauthorization Act of 2000) and Public Law 107-50 (Small Business Technology Transfer Program Reauthorization Act of 2001), which mandates a two-phase competition for small businesses with innovative technologies with a defense application as well as a commercial value. The Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs will develop new dual-use technologies for possible future DLA operational and sustainment requirements. DLA strives to make it fast and easy for customers to work with our Agency by quickly understanding current requirements and anticipating their future needs. In support of the major subordinate commands and military Services, Small Business Innovation Research (SBIR) helps to ensure readiness and lethality across the end-to-end supply chain by optimizing retail and industrial support, which ultimately reduces risk and increases efficiency, and positions solutions for Warfighter requirements.

Dual-use means the technologies will be judged on their potential for future private sector investment both as a vehicle for reducing development time and cost, unit costs of new DLA technologies, and as a route to national economic growth through new commercial products. DLA will conduct the competition as well as award and manage the contracts.

The DLA's SBIR/STTR investments are divided into multiple Research Areas that are aligned with the National Defense Strategy and the DLA Strategic Plan.

DLA R&D SBIP Strategic Focus Areas

Nuclear Enterprise Support: To maintain nuclear weapons systems readiness, SBIP seeks to qualify alternate sources of supply through the reverse engineering of technical data and/or source approval processes to improve availability for consumable parts for weapons systems with limited or diminishing sources of supply.
 Force Readiness and Lethality: To improve life cycle performance through technological advancement, innovation and reengineering, SBIP strives to mitigate single points-of-failure that threaten the readiness of weapons systems used by our Warfighters.

- Supply Chain Innovation: To maintain a secure and resilient supply chain, SBIP provides opportunities for our small business industrial base to engage in technological innovations that enhance supply chain operations, improve procurement lead times, and reduce life cycle costs.

- Supply Chain Assurance: To ensure supply chain readiness, SBIP endeavors to secure the microelectronics supply chain, adopt industrial base best practices associated with counterfeit risk reduction, and develop a domestic supply of rare earth elements essential to maintain the integrity of DLA's complex supply chain.

DMEA

- Advanced microelectronics concepts, technologies, and applications

- Continue to seek innovative technical solutions to DOD microelectronics research and development needs and increase private sector commercialization of these innovations.

PE 0605502S: *Small Business Innovative Research (SBIR...* Defense Logistics Agency

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Age	ncy		Date: M	arch 2023	
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605502S <i>I Small Business Innovative</i> <i>Research (SBIR)</i>	Project (N 01 / Small		lame) s Innovative R	Research
B. Accomplishments/Planned Programs (\$ in Millions)		F	2022	FY 2023	FY 2024
<i>Title:</i> SBIR Accomplishments/Plans			11.500	0.000	-
 Description: DLA FY 2022 SBIR/STTR Accomplishments: Grew Small Business capability to combat repair part sourcing challenges as and DMSMS through innovation, reverse engineering, and advanced manuface. Developed domestic suppliers for critical REEs, and derived materials and parecycling technologies for rare earth elements/magnets and qualified products weapons systems (i.e. F-35s/F-16s, JDAMs, turbine engines for various fighte - Sponsored innovative manufacturing technologies to enhance supply chain of performance (i.e. Fuel Cells, A/C Canopy Seals, Braking Systems, etc.) Developed Additive Manufacturing process monitoring and control system for Deposition methods - Transition system to OEMs, Army ARL, Air Force, NASA 	cturing techniques arts, such as magnets. Successfully developed of or a drop-in replacement for high performanc er jets, etc.) operation and improve weapon system lifecycle or Laser Powder Bed Fusion and Directed Ener	e 9			
 DMEA FY 2022 SBIR Accomplishments - The SBIR Program contributed to the technologies, and applications through the following topics initiated in FY 2022 Synthesizable Register Transfer Logic (RTL) Assertions Ultra High Voltage Silicon Carbide (SiC) Gated Devices (D2P2) 	•				
FY 2023 Plans: DLA SBIR/STTR: Continue execution of all active Phase I and Phase II SBIR/STTR Projects. We with DLA to identify requirements that meet DLA's long and short term Strateg mentorship to Phase II to projects to increase the likelihood of transition into g ventures. Issue Phase III contracts.	ic Objectives. Provide adequate guidance and				
DMEA SBIR: Continue to seek innovative technical solutions to DoD microelectronics resea sector commercialization of these innovations.	irch and development needs and increase priva	ate			
Emerging results from these FY 2023 SBIR efforts will be reported in FY 2024	:				
 Automated Measurement of Passive Devices in Printed Circuit Assemblies High Voltage Package Encapsulation using Innovative and Advanced Materi High-G Accelerometers 	als				

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Log	istics Agency		Date: M	arch 2023			
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605502S / Small Business Innovative Research (SBIR)	PE 0605502S I Small Business Innovative 01 I Sm					
B. Accomplishments/Planned Programs (\$ in Millions)		[FY 2022	FY 2023	FY 2024		
 High-G Clock Source Low Cost High Power Opening and Closing Switches (D2P2) Modular Cryogenic Dewar for Radiation Testing SiC Stress Tuning Ultra-High Voltage Insulated Gate Bipolar Transistor on SiC (D2P2 Ultra Wideband Voltage Controlled Oscillator Vertical Photoconductive Semiconductor Switch (PCSS) & Triggeri Radiation Shielding (Sequential Phase II) 	, ,						
FY 2023 to FY 2024 Increase/Decrease Statement: SBIR and STTR tax amounts are based on enacted budgets.							
	Accomplishments/Planned Programs Sul	btotals	11.500	0.000			
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u> N/A <u>D. Acquisition Strategy</u>							
The SBIR acquisition process seeks to match projects with DLA's S DLA requirements. DLA solicits all new project execution work throu periods throughout each year. (Jan-Feb, May-Jun, and Sep-Oct)							

Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 202	24 Defense	Logistics A	gency					Date: Marc	ch 2023	
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Developmen		R-1 Program Element (Number/Name) PE 0708012S <i>I Pacific Disaster Center</i>										
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	14.328	5.733	11.875	1.905	-	1.905	1.896	1.906	1.922	1.962	Continuing	Continuing
03: Pacific Disaster Center	14.328	5.733	11.875	1.905	-	1.905	1.896	1.906	1.922	1.962	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Pacific Disaster Center (PDC) is a public/private partnership managed by the University of Hawaii (UH) under a cooperative agreement with the Department of Defense. It is functionally within the organization of the Office of the Under Secretary of Defense (Acquisition and Sustainment) (OUSD(A&S)) and the Defense Logistics Agency (DLA). The PDC is a world-recognized authority and leader in science and information technology applications relating to humanitarian assistance and disaster relief (HA/DR). PDC develops new and innovative technologies to operate an (unclassified) integrated multi-hazard monitoring, early warning and decision support system, called DoD RAPIDS, for the Department.

<u>gram Change Summary (\$ in Millions)</u>	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base FY 2024 OCO	<u>FY 2024</u>	Total
Previous President's Budget	1.799	1.875	1.896 -		1.896
Current President's Budget	5.733	11.875	1.905 -		1.905
Total Adjustments	3.934	10.000	0.009 -		0.009
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	4.000	10.000			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
 SBIR/STTR Transfer 	-0.066	-			
Non-labor Inflation	-	-	0.009 -		0.009
Congressional Add Details (\$ in Millions, and Inclu	des General Redu	ctions)		FY 2022	FY 2023
Project: 03: Pacific Disaster Center					
				4 000	
Congressional Add: Global Water Security Center				4.000	10.000
Congressional Add: Global Water Security Center			Congressional Add Subtotals for Project: 0		10.000

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2024 D	Defense Log	istics Agen	су					Date: Mar	ch 2023	
Appropriation/Budget Activity 0400 / 7						am Elemen 12S <i>I Pacific</i>				umber/Na r Disaster C		
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
03: Pacific Disaster Center	14.328	5.733	11.875	1.905	-	1.905	1.896	1.906	1.922	1.962	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Bud The PDC has provided operation for the department since 2007. The and exercises, and was recently systems. "Expanded use of RAPI primary Joint Staff objective" in a events and crises of interest.	al support fo he system, o selected as DS across t	or an (uncla covering glo one of the he DoD at	issified) inte obal hazard most effectiv the Combat	is frequent ve systems ant Comma	ly used by (in a positio ands, Joint	COCOMS, p n paper by t Task Force,	articularly I he departm and by dep	NDOPACO lent, review	M and SOL ing all uncla from the se	ITHCOM, for assified info ervices" was	or HA/DR mi ormation sha s identified a	issions iring is "a
B. Accomplishments/Planned P	rograms (\$	in Million	<u>s)</u>						FY	2022 F	FY 2023	FY 2024
Title: Pacific Disaster Center (PD	C)									1.733	1.875	1.905
Description: The Under Secretar functional Office of Secretary of D acquisition oversight authority for	efense (OS	D) Principa										
The PDC has been in operation s under a cooperative agreement w resources transferred to the OUS	vith the Depa	artment of [Defense. Pa	cific Disast	er Center (F	PDC) functio						
The PDC is a world-recognized a assistance and disaster relief (HA awareness, and civil-military com and Vulnerability Assessments he The DLA J35, Plans Executive Di Manager's primary responsibility i appropriations for DoD missions a Authorities (DSCA). In doing this, jointly develops strategic guideling serves as a support element of th resources, as well as business op	/DR). PDC's munications elp inform st rectorate ov s for manag associated v the Program es, program e Hawaii-ba	s applicatio for human rategies by ersees pro- gement and vith DoD Cr n Managen matic conte	ns and infor itarian missi measuring gram manag stewardshij M, HA/DR, nent Office c ent and prior	mation pro ions worldw indicators f gement res p of govern Theater Se develops ar rities with th	ducts enhan vide, while it for national ponsibilities mental func- ecurity Coop nd provides ne UH and F	nce prepared ts national-le resiliency us related to the s provided i peration, and policy, over PDC. The PI	dness, situa evel socio-e sing scientif ne PDC. Th n Defense I Defense S sight and g DC Progran	ational economic Ri ic methods. le Program Departmen Support to C uidance, an n Office also	sk t :ivil d			

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agen	су			Date: N	larch 2023	
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/R PE 0708012S / Pacific Disaster Ce		Project (N 03 / Pacific		,	
B. Accomplishments/Planned Programs (\$ in Millions)			FY	2022	FY 2023	FY 2024
In 2022, the Pacific Disaster Center was recognized as the winner of the United related to disaster risk reduction.	d Nations Sasakawa Award for its g	lobal efforts	3			
FY 2023 Plans: The FY 2023 Annual Plan was published and presented during the Program Ma efforts are to continue modernization and sustainment of the DisasterAWARE s Planning and Incidents Decision support (RAPIDS) as well as Emergency Mana Department's and it's partner's Humanitarian assistance and Disaster Recovery (DSCA) missions.	system to support the DoD's Risk As agement Operations (EMOPS) (sup	ssessment, oporting the				
FY 2024 Plans: FY 2024 Annual Plan will be developed and presented during the Program Mar	nagement Review in December 202	23.				
FY 2023 to FY 2024 Increase/Decrease Statement: Congressional add of \$10 million was provided in FY 2023 for global water sectors	urity center.					
	Accomplishments/Planned Prog	rams Subt	otals	1.733	1.875	1.905
		FY 2022	FY 2023			
Congressional Add: Global Water Security Center		4.000	10.000			
FY 2022 Accomplishments: The Global Water Security Center (GWSC) was a of Alabama's Board of Trustees in June 2021 under the auspices of the Universe Water Institute (AWI). Through ground-breaking research and analysis, operat developing and implementing best practices in risk communications, GWSC will and environmental security-related information, tools, and analysis. By communimakers in contextually appropriate ways, GWSC will aid U.S. water security intervale access, food security, economic opportunities, and health. The center's DoD, Intelligence Community, State Department, Coast Guard, USGS, NOAA, many other academia and private stakeholders.	sity of Alabama's Alabama ionalizing applied science, and Il create the most reliable water nicating to key U.S. decision- erests and improve outcomes like key stakeholders could include:					
 The Global Water Security Center's objectives include: 1) Advancing water and environmental security science by facilitating research partnerships with academia, government, and industry. 2) Develop and maintain water and environmental security information and data and reliable. This will improve engagement with partners while encouraging the key national security work. 	a that are consistent, up-to-date,					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Logistics Agen	су			Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/ PE 0708012S / Pacific Disaster C	•		umber/Name) c Disaster Center
3) Advance water and environmental security science by facilitating research th with academia, government, and industry.	rough collaborative partnerships	FY 2022	FY 2023	
FY 2023 Plans: The Global Water Security Center (GWSC) will to deliver data, training to help key decision makers understand the connection between water to leverage that knowledge to achieve their missions. Through modeling for Wa the GWSC will support science applications and analysis of environmental (in)s energy, and health nexus. In addition, the GWSC will support diverse organizat Staff, and military services anticipate the data and products can be force multip	security and national security and iter and Climate Security Impacts, security within the water, food, ions like CCMDs, OSD, Joint			
	Congressional Adds Subtotals	4.000	10.000	
C. Other Program Funding Summary (\$ in Millions)			·	-

N/A

<u>Remarks</u>

D. Acquisition Strategy

PDC projects beyond the baseline Situational Awareness & Decision Support Applications/Tools architecture (Atlas/DisasterAWARE Pro/RAPIDS) undertaken in support of the DoD Cooperative Agreement (CA) with the University of Hawaii (UH) are from PDC customers (e.g., DoD, NGOs, other nations, academia, and industry). The PDC prepares the public, disaster managers, governments, and others to mitigate the effects of disasters. The goal is to have people and technology work together to preserve life, safeguard livelihoods, protect property to foster disaster-resilient communities. Projects obtained and funded from this customer base serve as a means to determine PDC product and services relevancy. PDC's expanded risk assessments to include scientific measure of Fragility profiles and Women, Peace, and Security (WPS) are received by DoD and other national policy makers as a base to inform the strategic decision-making process.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2024 Defe	ense Logi	stics Age	ncy						Date:	March 20)23	
Appropriation/Budge 0400 / 7	et Activity	1					ogram Ele 8012S / P				-	: (Numbe i cific Disas		r	
Test and Evaluation	(\$ in Milli	ons)		FY 2	2022	FY 2	2023		2024 ase		2024 CO	FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PDC Disaster AWARE: Early Warning and Decision Support Applications	MIPR	University of Hawaii Systems : Honolulu, HI	14.328	1.733	Dec 2021	1.875	Dec 2022	1.905	Dec 2023	-		1.905	Continuing	Continuing	Continuing
Global Water Security Center	MIPR	University of Alabama through the University of Hawaii : Honolulu, HI	-	4.000	Aug 2022	10.000	Apr 2023	-		-		-	Continuing	Continuing	-
		Subtotal	14.328	5.733		11.875		1.905		-		1.905	Continuing	Continuing	N/A
			Prior Years	FY	2022	FY	2023		2024 1se		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	14.328	5.733		11.875		1.905		-		1.905	Continuing	Continuing	N/A

Remarks

ibit R-4, RDT&E Schedule Profile: PB 2024 Defen	se Logistics Agency	Date: March 2023
ropriation/Budget Activity	R-1 Program Element (Number/Nar PE 0708012S / Pacific Disaster Cent	
		Y 2026 FY 2027 FY 2028
		2 3 4 1 2 3 4 1 2 3 4
Pacific Disaster Center		
Pacific Disaster Center (PDC)		

hibit R-4A, RDT&E Schedule Details: PB 2024 Defense Logistics Agency			Da	te: March 2023
propriation/Budget Activity 00 / 7	R-1 Program Element (Number PE 0708012S <i>I Pacific Disaster</i> (Project (Numl 03 / Pacific Dis	
Scl	hedule Details			
	Sta	rt		End
Events by Sub Project	Sta Quarter	rt Year	Quar	End ter Year
Events by Sub Project Pacific Disaster Center			Quar	

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 202	24 Defense	Logistics A	gency					Date: Marc	ch 2023	
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Developmen		ntion, Defen	se-Wide I B	A 7:	R-1 Progra PE 070804		t (Number / se Property	,	ility System	(DPAS)		
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	17.210	6.157	3.264	3.249	-	3.249	3.062	3.080	3.106	3.172	Continuing	Continuing
ABC: DPAS	17.210	6.157	3.264	3.249	-	3.249	3.062	3.080	3.106	3.172	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Property Accountability System (DPAS) provides the Department an asset accountability system which is fully compliant with financial reporting regulations and has a clean audit history. With an integrated accountability, utilization, maintenance, and warehouse capability, DPAS provides the Department an enterprise solution for asset management.

B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	6.390	3.264	3.233	-	3.233
Current President's Budget	6.157	3.264	3.249	-	3.249
Total Adjustments	-0.233	0.000	0.016	-	0.016
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-0.233	-			
 Non-Labor Inflation 	-	-	0.016	-	0.016

Exhibit R-2A, RDT&E Project J	ustification:	PB 2024 D	Defense Log	istics Agen	ю					Date: Mai	rch 2023	
Appropriation/Budget Activity 0400 / 7					PE 070804	am Elemen 47S I Defens tem (DPAS)	se Property	,	Project (N ABC / DPA		me)	
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
ABC: DPAS	17.210	6.157	3.264	3.249	-	3.249	3.062	3.080	3.106	3.172	2 Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
The DPAS system provides according budgeted projects will provide error greater enhancements to DPAS B. Accomplishments/Planned I Title: Technical Refresh Description: During the Technical equipment assets from the warel processes to support the Army to	nhancements allow the DC Programs (\$ cal Refresh, c nouse portior	to the exis DD to sunse in Millions changes to n of the sys	sting capabil et legacy sys <u>5)</u> the system tem will min	lity, ensure stems as D processes ror the proc	efficient op PAS assimi will be mad cesses in th	eration, and ilates the leg e so accoun e current Pro	provide so jacy functio ting transac operty Acco	lutions for p nality into th ctions for puntability.	rocess gaps ne overall op FY	s as they a perations.		
FY 2022 Accomplishments: In December 2021, DPAS compl total asset feed to the OSD ADV. The package also provides a sea Warehousing modules, providing accountability/visibility. The tech under the upgraded code platform	ANA platform amless transf the capabili nical refresh	n, providing fer capabilit ty to move	OSD and the optimized of assets of asset interest of asset interest of the optimized of the	he DPAS u between th o and out c	ser commu le Property of storage of	nity a view o Accountabili r maintenano	f all assets ty, Mainten ce without le	on DPAS. ance and osing	5			
FY 2023 Plans: Continue the technical refresh wissustainment costs, and improve		•	unctionality,	increase s	calability, u	pgrade proc	esses, deci	rease				
FY 2024 Plans: Complete the technical refresh w sustainment costs, and improve submitted by various DoD compo	user experie								1			
FY 2023 to FY 2024 Increase/D	ecrease Sta	tement:										

Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Lo	ogistics Agency		Date: N	larch 2023	
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0708047S <i>I Defense Property Account</i> <i>ability System (DPAS)</i>		ct (Number/N I DPAS	lame)	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2022	FY 2023	FY 2024
No significant change from FY 2023 to FY 2024.					
	Accomplishments/Planned Programs Sub	ototals	6.157	3.264	3.24
C. Other Program Funding Summary (\$ in Millions)					
N/A					
Remarks					
D. Acquisition Strategy					
N/A					

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	024 Defe	nse Log	istics Age	ncy						Date:	March 20	023	
Appropriation/Budge 0400 / 7	et Activity	1				PE 070	ogram Ele 8047S I E System (D	Defense F			Project ABC / L	: (Numbe DPAS	r/Name)		
Product Developme	nt (\$ in M	illions)		FY	2022	FY	2023		2024 ase		2024 CO	FY 2024 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DPAS Version 7 Development	C/CPIF	Leidos Inc : Camp Hill PA	6.631	-		-		-		-		-	0.000	6.631	6.631
DPAS Development 2020.1	C/FFP	Leidos Inc : Camp Hill PA	3.545	-		-		-		-		-	0.000	3.545	3.545
DPAS Development Version 2021.1	SS/FFP	Leidos, Inc. : Camp Hill Pa	7.034	-		-		-		-		-	Continuing	Continuing	7.301
DPAS Development Version 2022.1	Option/ FFP	Leidos Inc: : Camp Hill, PA	-	6.157	Aug 2022	-		-		-		-	Continuing	Continuing	6.390
DPAS Development 2023.1	Option/ FFP	Leidos Inc : Camp Hill, PA	-	-		3.264	Aug 2023	-		-		-	Continuing	Continuing	-
DPAS Development Version 2024.1	C/FFP	TBD : TBD	-	-		-		3.249	Sep 2023	-		3.249	Continuing	Continuing	3.233
		Subtotal	17.210	6.157		3.264		3.249		-		3.249	Continuing	Continuing	N/A
			Prior Years	FY	2022	FY	2023		2024 ase		2024 CO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	17.210	6.157		3.264		3.249		-		3.249	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedu	le Pro	file:	PB 20)24 C)efen	se Lo	ogisti	cs Ag	gency	,												Da	te: N	larch	2023	}		
Appropriation/Budget Activ 0400 / 7	ity									F	PE 07	70804	17S /		nse l		oer/N erty A				j ect (C / DF	Num PAS	ber/N	lame	e)			
Fiscal Year		FY 2	2022			FY 2	023			FY 2	2024			FY 2	025			FY 2	026			FY 2	027			FY 2	028	
Project Task	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Research																												
Design																												
Development																												
Testing																												
Implementation																												
Research																												
Design																												
Development																												
Testing																												
Implementation																												
Research																												
Design																												
Development																												
Testing																												
Implementation																												

chibit R-4A, RDT&E Schedule Details: PB 2024 Defense Logistics Age	gency			Date: March	h 2023
opropriation/Budget Activity 00 / 7	R-1 Program Element (Numbe PE 0708047S <i>I Defense Proper</i> <i>ability System (DPAS)</i>		Project (N ABC / DPA	umber/Nam S	e)
	Schedule Details				
		art		En	d
Events by Sub Project		art Year	Q	En	id Year
Events by Sub Project Defense Property Accountability System (DPAS)	St		Q		