Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy											Date: March 2023	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 4: *Advanced Component Development & Prototypes (ACD&P)*					R-1 Program Element (Number/Name) PE 0604289M *I Expeditionary Logistics*							
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	26.954	7.796	7.342	5.991	-	5.991	9.144	10.906	11.561	8.558	Continuing	Continuing
2741: *Additive Manufacturing*	7.646	1.038	2.342	5.991	-	5.991	9.144	10.906	11.561	8.558	Continuing	Continuing
9999: *Congressional Adds*	19.308	6.758	5.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	31.066

A. Mission Description and Budget Item Justification

This program element supports cost associated with the research and development of Marine Corps Systems Command policy, acquisition process modifications, and prototyping to support the USMC Additive Manufacturing (AM) Initiative.

The USMC Additive Manufacturing Initiative is an initiative intended to give Marine units access to additive manufacturing techniques to allow them the opportunity to exercise innovation in the resolution of issues affecting unit combat readiness. This PE will support of the development of procedures to enable the approval and manufacturing of items requested from Marines. This involves the development of Marine Corps Policy, an approval process, engineering analysis and testing, establishment of facilities to produce prototype additive manufactured parts, and development of training to support the Marine Corps use of additive manufacturing. This initiative incorporates development of strategic partnerships with other DoN Systems Commands and field activities to develop DoN standards, processes, and other associated acquisition activities to support future use of additive manufacturing in DoN acquisition and readiness areas.

The Next Generation Logistics (NexLog) project supports cost associated with the research and development, experimentation, and limited, rapid fielding of emerging logistics capabilities necessary to enable the Fleet Marine Forces to execute the Marine Corps Operating Concept and inform logistics policies. These emerging logistics capabilities include development of autonomous ground, surface, and sub-surface materiel distribution systems; development of operational and tactical, in-field digital fabrication capabilities; and, the development of sensor-driven logistics information technology. This element also supports development of strategic partnerships with DoN Systems Commands and field activities in order to leverage their capabilities and align DoN standards and processes, while furthering the use of additive manufacturing, and other emerging logistics technologies, to increase warfighter readiness, capability, survivability, and effectiveness.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy	Date: March 2023
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy* / BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 Program Element (Number/Name)** PE 0604289M / *Expeditionary Logistics*

B. Program Change Summary ($ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	8.071	2.342	2.408	-	2.408
Current President's Budget	7.796	7.342	5.991	-	5.991
Total Adjustments	-0.275	5.000	3.583	-	3.583
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	5.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.275	0.000			
• Rate/Misc Adjustments	0.000	0.000	3.583	-	3.583

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2022	FY 2023
Project: 9999: *Congressional Adds*		
Congressional Add: *Hydrogen fuel cell technology*	1.931	0.000
Congressional Add: *Predictive maintenance for Navy and Marine Corps weapons systems*	4.827	0.000
Congressional Add: *Additive manufacturing part screening tool*	0.000	5.000
Congressional Add Subtotals for Project: 9999	6.758	5.000
Congressional Add Totals for all Projects	6.758	5.000

Change Summary Explanation

The decrease of $1.351M from FY 2023 to FY 2024 is primarily due to the following programs adjustments within the PE:

Increase of $3.649M from FY 2023 to FY 2024 reflects the increase in scope, capability, and adoption of the USMC ground Additive Manufacturing digital repository, as well as the increased scope and scale of the large scale USV hull.

Decrease of $5.000M from FY 2023 to FY 2024 supports requirement to complete and implement at an enterprise level of the candidacy software, industrial metal printing, and digital manufacturing.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604289M / *Expeditionary Logistics*	Project (Number/Name) 2741 / *Additive Manufacturing*	

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
2741: *Additive Manufacturing*	7.646	1.038	2.342	5.991	-	5.991	9.144	10.906	11.561	8.558	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project supports costs associated with the research and development of Marine Corps Systems Command acquisition process modifications, prototyping, and future logistics innovations to support the USMC Additive Manufacturing (AM) Initiative under the direction of Marine Corps Systems Command. This project invests in the 3D printing of large scale constructs such as metal and polymer landing craft and concrete structures to include buildings and bridges. The USMC Additive Manufacturing Initiative is intended to give Marine units access to additive manufacturing techniques allowing them the opportunity to exercise innovation in the resolution of issues affecting unit combat readiness and sustainment.

This effort also supports the development of procedures to enable the approval and manufacturing of items requested from Marines. This involves the development of Marine Corps Policy, the digital data repository required to share equipment technical data and part designs, a part approval process, engineering analysis and testing, establishment of facilities to produce prototype additive manufactured parts, and development of training to support the Marine Corps' use of additive manufacturing. This initiative incorporates development of strategic partnerships with other DoN Systems Commands and field activities to develop DoN Standards, Processes, and other associated acquisition activities to support future use of additive manufacturing in DoN acquisition, readiness, and sustainment.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Additive Manufacturing	1.038	2.342	5.991	0.000	5.991
Articles:	-	-	-	-	-
FY 2023 Plans: - Continue the development and implementation of the digital data repository that is critical to sharing technical data across the Marine Corps and with other DoD Services and the DLA. - Continue the development of the additive manufacturing qualification and certification processes. - Continue the development of additive manufacturing technical data from legacy platforms and systems in order to increase readiness and assist with modernization efforts. - Initiate the design and development of large scale battlefield decoys using additively manufactured designs and tooling. - Initiate the development of large scale printed Unmanned Surface Vehicle (USV) and Unmanned Underwater Vehicle (UUV) hulls to enable rapid reconstitution of forces and highly tailorable designs or craft. - Initiate the use of additive manufacturing and advanced manufacturing in the use of fabricating circuit boards in expeditionary environments.					
FY 2024 Base Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604289M / *Expeditionary Logistics*	**Project (Number/Name)** 2741 / *Additive Manufacturing*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
- Continue the development and implementation of the digital data repository that is critical to sharing technical data across the Marine Corps and with other DoD Services and the DLA. - Continue maturing 3D printed part candidacy tools in development in order to assess USMC equipment programs in sustainment for printable parts, as well as evaluating future USMC programs under development and assessment for percentage of parts that can be 3D printed to support sustainment operations in the field and garrison. - Continue the development of large scale printed Unmanned Surface Vehicle (USV) hull to enable rapid reconstitution of forces and highly tailorable designs or craft. - Continue the use of additive manufacturing and advanced manufacturing in the use of fabricating circuit boards in expeditionary environments. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** Increase from FY 2023 to FY 2024 reflects the increase in scope, capability, and adoption of the USMC ground Additive Manufacturing digital repository, as well as the increased scope and scale of the large scale USV hull.					
Accomplishments/Planned Programs Subtotals	1.038	2.342	5.991	0.000	5.991

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The AM program utilizes a non-traditional acquisition strategy due to AM being a set of enabling technologies vice a conventional platform for milestone-driven acquisition. It will incorporate strategic partnerships with other DoN activities, Joint Staff, and the other Services. For that reason, these AM investments are designed to explore future capabilities where AM may resolve gaps in logistical readiness, provide warfighting solutions, and to mitigate AM-related risk within existing programs of record.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604289M / *Expeditionary Logistics*	**Project (Number/Name)** 2741 / *Additive Manufacturing*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Years Cumulative Funding	Various	NA : NA	3.953	0.000		0.000		0.000		-		0.000	0.000	3.953	-
AM Digital Data Repository Prototype	MIPR	GSA : O'Fallon, Il	0.000	0.467	Mar 2022	0.545	Mar 2023	0.000		-		0.000	0.000	1.012	-
Digital Manufacturing Data Vault development	WR	NIWC PAC : San Diego, CA	0.000	0.545	Mar 2022	0.500	Mar 2023	3.083	Mar 2024	-		3.083	Continuing	Continuing	Continuing
AM of expendable UUV/ USV hull	RO	NIWC PAC : San Diego, CA	0.000	0.000		0.800	Mar 2023	2.425	Mar 2024	-		2.425	0.000	3.225	-
AM of large scale battlefield decoys	MIPR	NSWC-CD : Carderock, MD	0.000	0.000		0.250	Feb 2023	0.000		-		0.000	0.000	0.250	-
AM of circuit cards and electronics	MIPR	NSWC-CR : Crane, IN	0.000	0.000		0.100	Jan 2023	0.100	Jan 2024	-		0.100	0.000	0.200	-
		Subtotal	3.953	1.012		2.195		5.608		-		5.608	Continuing	Continuing	N/A

Remarks

The Additive Manufacturing (AM) program utilizes a non-traditional acquisition strategy, due to AM being a set of enabling technologies vice a conventional platform for milestone-driven acquisition. The funding distribution above reflects research and development efforts for AM enabling technologies.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel	Various	Various : Various	0.081	0.026	Jun 2022	0.065	Jun 2023	0.043	Jun 2024	-		0.043	0.000	0.215	-
AM Identify Cases for Prototypes	MIPR	NSWC : Dahlgren	0.000	0.000		0.082	Jan 2023	0.340	Jan 2024	-		0.340	0.000	0.422	-
Prior Years Cumulative Funding	Various	Vrious : Various	3.612	0.000		0.000		0.000		-		0.000	0.000	3.612	-
		Subtotal	3.693	0.026		0.147		0.383		-		0.383	0.000	4.249	N/A

Remarks

The Additive Manufacturing (AM) program utilizes a non-traditional acquisition strategy, due to AM being a set of enabling technologies vice a conventional platform for milestone-driven acquisition. The funding distribution above reflects research and development efforts for AM enabling technologies.

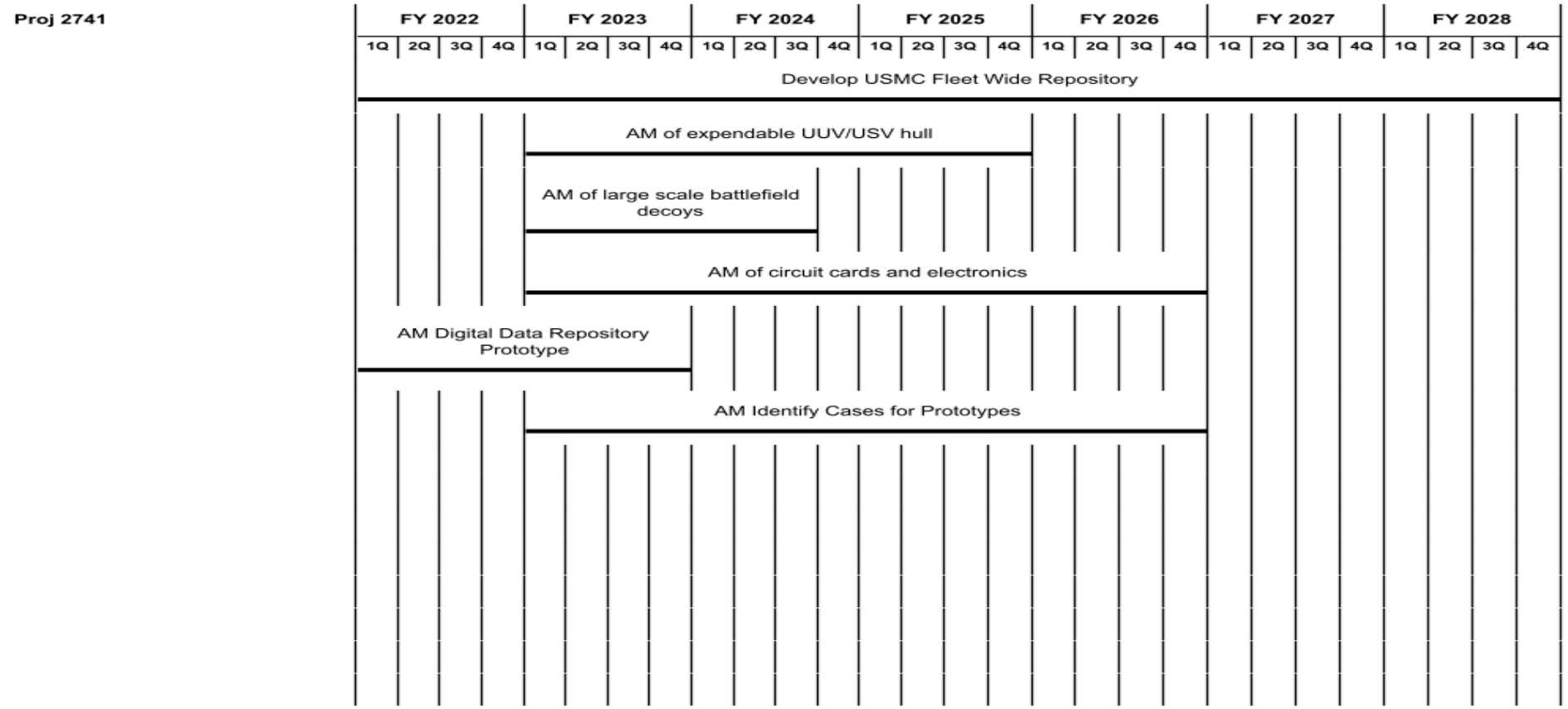
Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604289M / *Expeditionary Logistics*	Project (Number/Name) 2741 / *Additive Manufacturing*	

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	7.646	1.038		2.342		5.991		-		5.991	Continuing	Continuing	N/A

Remarks

Increase of $3.649M from FY 2023 to FY 2024 reflects the increase in scope, capability, and adoption of the USMC ground Additive Manufacturing digital repository, as well as the increased scope and scale of the large scale Unmanned Surface Vehicle (USV) hull.

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604289M / *Expeditionary Logistics*	**Project (Number/Name)** 2741 / *Additive Manufacturing*



2024DON - 0604289M - 2741

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604289M / *Expeditionary Logistics*	**Project (Number/Name)** 2741 / *Additive Manufacturing*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2741				
Develop USMC Fleet Wide Repository	1	2022	4	2028
AM of expendable UUV/USV hull	1	2023	4	2025
AM of large scale battlefield decoys	1	2023	3	2024
AM of circuit cards and electronics	1	2023	4	2026
AM Digital Data Repository Prototype	1	2022	4	2023
AM Identify Cases for Prototypes	1	2023	4	2026

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604289M / *Expeditionary Logistics*	Project (Number/Name) 9999 / *Congressional Adds*	

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
9999: *Congressional Adds*	19.308	6.758	5.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	31.066
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Marine Corps continues to research and evaluate next generation logistics solutions for key sustainment technologies focused on enabling and enhancing combat capabilities in support of Expeditionary Advanced Based Operations (EABO). Specifically, the USMC seeks to enhance small maneuver units' ability to generate power, create purified water, and provide for its own subsistence. This includes identifying and integrating non-traditional power and propulsion technologies to enhance sustainment and tactical advantages. In addition, the USMC will evaluate logistics technologies that operate in the surface domain to fill identified gaps relating to littoral maneuver and sustainment.

The Predictive Maintenance for Navy and Marine Corps Weapons Systems initiative supports the Condition-Based Maintenance (CBM+). CBM+ is a collaborative DoD readiness initiative focused on the development and implementation of data analysis and sustainment technology capabilities to improve weapon system availability and achieve optimum costs across the enterprise. CBM+ is the application and integration of processes, technologies, and knowledge-based capabilities to improve the reliability and maintenance effectiveness of DoD systems and components. CBM+ includes both hardware and software components or the Military Equipment (ME) to be capable of monitoring, collecting, and transferring system data.

Additive Manufacturing (AM), or 3-dimensional (3D) printing, is a technology with significant implications for the U.S. manufacturing base, naval warfare and expeditionary operations. It can shorten the design-to-production cycle, enable new designs for a multitude of items, and facilitate cost-effective on-demand manufacturing. AM provides the Marine Corps increased readiness and sustainment, extended reach, and increased lethality. AM also provides Marines the autonomy to solve problems at the forward edge of battle. As additive manufacturing evolves to produce end-use items, there is significant potential to resolve obsolescence, diminishing manufacturing sources and material shortages (DMSMS), and long lead time issues currently inherent in the fleet that will become more pervasive in EABO / DO. Additive manufacturing of components and entire platforms 'on demand' at the point of need shall support a scalable supply chain and enable a new era of supply chain independence.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023
Congressional Add: Hydrogen fuel cell technology	1.931	0.000
FY 2022 Accomplishments: - Initiate the Advancement of non-traditional energy sources and supports the Department of Defense initiative to transition to carbon and pollution-free electricity.		

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604289M / *Expeditionary Logistics*	**Project (Number/Name)** 9999 / *Congressional Adds*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023
- Initiate development efforts to improve recharging of battery systems from non-traditional energy sources which will increase availability, reduce costs, and decrease logistics footprints. ***FY 2023 Plans:*** N/A		
Congressional Add: Predictive maintenance for Navy and Marine Corps weapons systems ***FY 2022 Accomplishments:*** Continued the procurement of test equipment and personnel to establish the systems integration lab supporting the transition of DoD mandated CBM+ capabilities from reliability centered maintenance. The procurement of test equipment will support developmental testing to validate collection, store and transfer capabilities of CBM+ across multiple Mission Essential Equipment platforms to align with FD2030 initiatives. ***FY 2023 Plans:*** N/A	4.827	0.000
Congressional Add: Additive manufacturing part screening tool ***FY 2022 Accomplishments:*** N/A ***FY 2023 Plans:*** -Complete the development of an automated additive manufacturing part candidacy tool that evaluates technical feasibility, economic viability, and readiness drivers for Marine Corps ground system program offices. These tools will be able to leverage USMC technical and logistics data to focus resources on additively manufacturing the highest-return items. This tool will allow the Marine Corps to maximize its use of USMC and industry AM capabilities as well as create a standard operating procedure that consistently provides viable AM candidates based on repeatable grading criteria within the selection process. In addition to the software tool, the effort will include 3D printing in industrial metal of the candidate parts identified and follow on engineering evaluation, as well as integrating the data generated into the USMC's digital manufacturing repository.	0.000	5.000
Congressional Adds Subtotals	6.758	5.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Currently, the CBM+ program utilizes a non-traditional acquisition approach, due to CBM+ being a set of enabling technologies vice a conventional platform for milestone-driven acquisition. CBM+ will utilize other transaction authorities to explore partnerships with DON and commercial activities to pursue full CBM+ capabilities.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604289M / *Expeditionary Logistics*	**Project (Number/Name)** 9999 / *Congressional Adds*

The AM program utilizes a non-traditional acquisition strategy, due to AM being a set of enabling technologies vice a conventional platform for milestone-driven acquisition. It will incorporate strategic partnerships with other DoN activities, Joint Staff, and the other Services. For that reason, these AM investments are designed to explore future capabilities where AM may resolve gaps in logistical readiness, provide a warfighting solutions, and to mitigate AM-related risk within existing programs of record.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604289M / *Expeditionary Logistics*	Project (Number/Name) 9999 / *Congressional Adds*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
PTC Windchill Phase II - CR	MIPR	GSA : O'Fallon, Illinois	0.820	0.000		1.387	May 2023	0.000		-		0.000	0.000	2.207	-
Automated AM Part Screening and Selection Software Development	MIPR	NIWC PAC : San Diego, CA	1.072	0.000		2.928	Sep 2023	0.000		-		0.000	0.000	4.000	-
OT&E CBM+ Development & Collection Direct Cite	C/FFP	DTIC : Ft Belvoir, VA	0.000	3.423	Aug 2022	0.000		0.000		-		0.000	0.000	3.423	-
OT&E CBM+ Development & Collection Reimbursable	WR	NSWC Crane : Crane, IN	0.000	1.250	Aug 2022	0.000		0.000		-		0.000	0.000	1.250	-
OT&E CBM+ Data Scaling & Proof of Concepts	WR	GSA : Washington D.C.	0.000	0.154	Dec 2022	0.000		0.000		-		0.000	0.000	0.154	-
LIO - Hydrogen Power Technology	C/FFP	WHS : Washington, DC	0.000	1.931	Jul 2022	0.000		0.000		-		0.000	0.000	1.931	-
AM Industrial Metal Printing	MIPR	WHS : Washington, DC	0.000	0.000		0.415	Apr 2023	0.000		-		0.000	0.000	0.415	-
Prior Year Cumulative	Various	Various : Various	11.156	0.000		0.000		0.000		-		0.000	0.000	11.156	-
		Subtotal	13.048	6.758		4.730		0.000		-		0.000	0.000	24.536	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
AM Fleet Support - 3D printing training and integration - RS	WR	NSWC CD : Carderock, MD	0.400	0.000		0.175	May 2023	0.000		-		0.000	0.000	0.575	-
AM Construction Structure Design	C/BA	ARMY / ERDC : Vicksburg, MS	0.000	0.000		0.095	May 2023	0.000		-		0.000	0.000	0.095	-
Prior Year Cumulative	Various	Various : Various	5.360	0.000		0.000		0.000		-		0.000	0.000	5.360	-
		Subtotal	5.760	0.000		0.270		0.000		-		0.000	0.000	6.030	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604289M / *Expeditionary Logistics*	Project (Number/Name) 9999 / *Congressional Adds*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	WR	NSWC-CD : Carderock, MD	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	-
		Subtotal	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	N/A

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	19.308	6.758		5.000		0.000		-		0.000	0.000	31.066	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604289M / *Expeditionary Logistics*	**Project (Number/Name)** 9999 / *Congressional Adds*

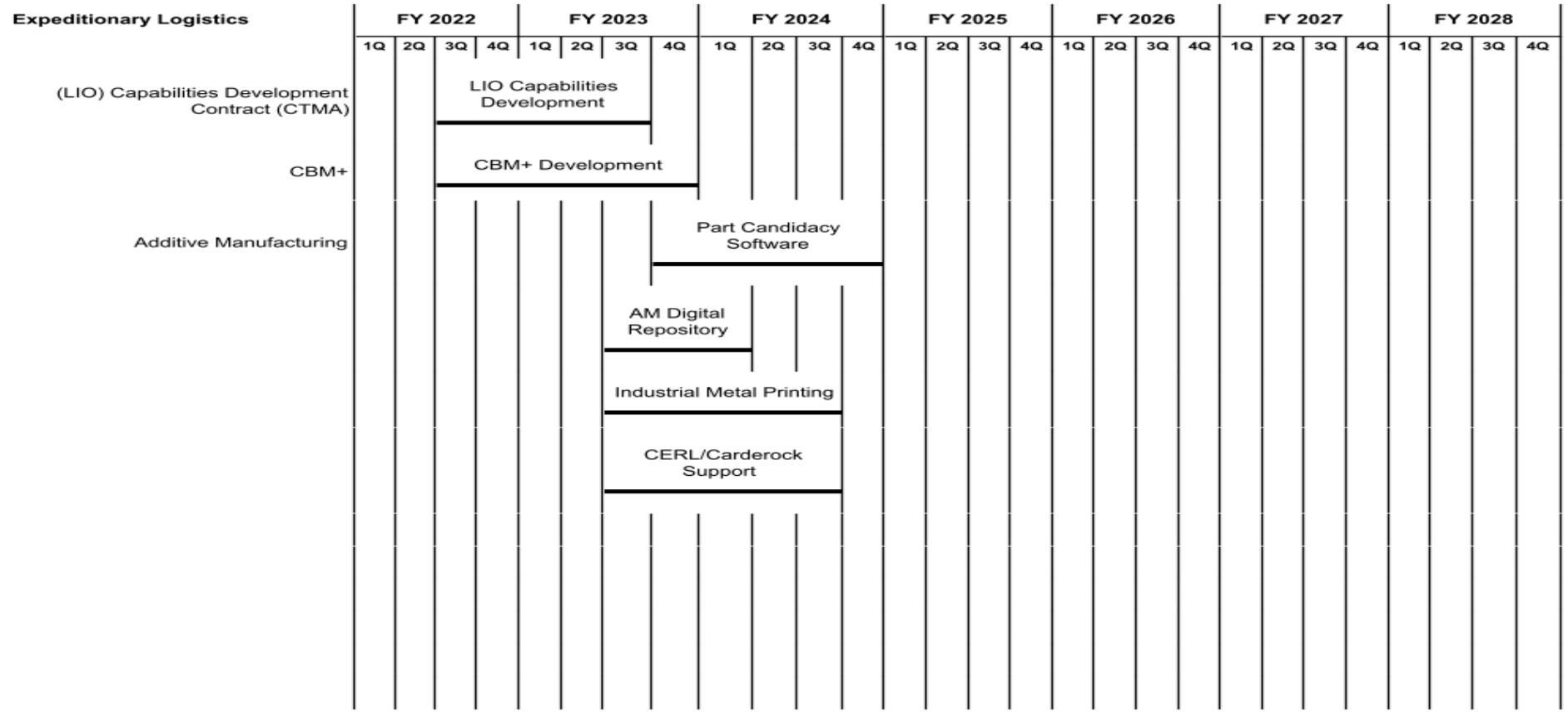


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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604289M / *Expeditionary Logistics*	**Project (Number/Name)** 9999 / *Congressional Adds*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Expeditionary Logistics				
(LIO) Capabilities Development Contract (CTMA): Contract Award	3	2022	3	2023
CBM+: CBM+ Development	3	2022	4	2023
Additive Manufacturing: Part Candidacy Software Development	4	2023	4	2024
Additive Manufacturing: Digital Repository Development	3	2023	1	2024
Additive Manufacturing: Industrial Metal Printing Development	3	2023	3	2024
Additive Manufacturing: CERL Support	3	2023	3	2024