## Department of Defense Fiscal Year (FY) 2019 Budget Estimates

February 2018



## **Defense Logistics Agency**

Defense-Wide Justification Book Volume 5 of 5

Research, Development, Test & Evaluation, Defense-Wide

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Defense Logistics Agency • Budget Estimates FY 2019 • RDT&E Program

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#### Department of Defense FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

02 Feb 2018

<del>ge II</del> Volume 5 - v

Appropriation	FY 2017 (Base + OCO)	FY 2018 PB Request with CR Adj Base	FY 2018 Total PB Requests* with CR Adj Base	FY 2018 PB Request with CR Adj OCO	FY 2018 Total PB Requests+ with CR Adj OCO
Research, Development, Test & Eval, DW	189,190	319,796	319,796		
Total Research, Development, Test & Evaluation	189,190	319,796	319,796		

R-119PB: FY 2019 President's Budget (Published Version), as of February 2, 2018 at 12:42:22



#### Department of Defense FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

FY 2018 FY 2018 FY 2018 Less Enacted Total Less Enacted FY 2018 PB Requests\* DIV B Remaining Req FY 2018 Div B Emergency P.L.115-96\*\*\* FY 2018 with CR Adj P.L.115-96\*\*\* with CR Adj Requests\*\* MDDE + Ship Remaining Req Base + OCO + MDDE + Ship Base + OCO + Repairs Emergency Emergency\*\* Repairs Emergency Appropriation Emergency ····· \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_ \_\_\_\_\_ 319,796 319,796 Research, Development, Test & Eval, DW 319,796 319,796 Total Research, Development, Test & Evaluation

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#### Department of Defense FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

02 Feb 2018

Appropriation	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Research, Development, Test & Eval, DW	. 273,011		273,011
Total Research, Development, Test & Evaluation	273,011		273,011

R-119PB: FY 2019 President's Budget (Published Version), as of February 2, 2018 at 12:42:22

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#### Department of Defense FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

FY 2018 FY 2018 Total FY 2018 Total FY 2018 PB Request PB Requests\* PB Request PB Requests+ with CR Adj with CR Adj with CR Adj with CR Adj FY 2017 000 000 Base (Base + OCO) Base Summary Recap of Budget Activities \_\_\_\_\_ \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ 270,925 129,264 270,925 Advanced Technology Development 44,177 44,177 System Development And Demonstration 35,623 4,554 Management Support 4,694 4,694 19,749 Operational System Development 319,796 189,190 319,796 Total Research, Development, Test & Evaluation Summary Recap of FYDP Programs \_~~\_\_~ 315,102 315,102 169,441 Research and Development 4,694 4,694 19,749 Central Supply and Maintenance 319,796 Total Research, Development, Test & Evaluation 189,190 319,796

R-119PB: FY 2019 President's Budget (Published Version), as of February 2, 2018 at 12:42:22



#### Department of Defense FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

02 Feb 2018

Summary Recap of Budget Activities	FY 2018 Emergency Requests** Emergency	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs	FY 2018	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**	P.L.115-96***	Remaining Req with CR Adj
		· · · · · · · · · · · · · · · · · · ·				
Advanced Technology Development				270,925		270,925
System Development And Demonstration				44,177		44,177
Management Support						
Operational System Development				4,694		4,694
Total Research, Development, Test & Evaluation				319,796		319,796
Summary Recap of FYDP Programs						
Research and Development				315,102		315,102
Central Supply and Maintenance				4,694		4,694
Total Research, Development, Test & Evaluation				319,796		319,796

R-119PB: FY 2019 President's Budget (Published Version), as of February 2, 2018 at 12:42:22



#### Department of Defense FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

02 Feb 2018

Summary Recap of Budget Activities	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Advanced Technology Development	230,376		230,376
System Development And Demonstration	35,060		35,060
Management Support	4,000		4,000
Operational System Development	3,575		3,575
Total Research, Development, Test & Evaluation	273,011		273,011
Summary Recap of FYDP Programs			
Research and Development	269,436		269,436

Central Supply and Maintenance

Total Research, Development, Test & Evaluation

3,575

273,011

R-119PB: FY 2019	President's Budg	t (Published	Version),	as of	February :	2, 2018	at 12:42:22
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3,575

273,011

#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

FY 2018

Total FY 2018 Total FY 2018 PB Requests+ PB Request PB Requests\* PB Request with CR Adj with CR Adj with CR Adj FY 2017 with CR Adj 000 000 Base (Base + OCO) Base Summary Recap of Budget Activities \_\_\_\_\_\_ \_\_\_\_ 270,925 129,264 270,925 Advanced Technology Development 44,177 44,177 35,623 System Development And Demonstration 4,554 Management Support 4,694 4,694 19,749 Operational System Development 319,796 319,796 189,190 Total Research, Development, Test & Evaluation Summary Recap of FYDP Programs 315,102 169,441 315,102 Research and Development 4,694 19,749 4,694 Central Supply and Maintenance 319,796 189,190 319,796 Total Research, Development, Test & Evaluation

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FY 2018

FY 2018

#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

FY 2018

FY 2018

FY 2018 Less Enacted Total Less Enacted Remaining Req DIV B PB Requests\* Div B FY 2018 with CR Adj P.L.115-96\*\*\* with CR Adj Emergency P.L.115-96\*\*\* FY 2018 MDDE + Ship Remaining Req Base + OCO + MDDE + Ship Base + OCO + Requests\*\* Repairs Emergency Emergency\*\* Repairs Emergency Emergency Summary Recap of Budget Activities ------\_\_\_\_\_ 270,925 270,925 Advanced Technology Development 44,177 44,177 System Development And Demonstration Management Support 4,694 4,694 Operational System Development 319,796 319,796 Total Research, Development, Test & Evaluation Summary Recap of FYDP Programs \_\_\_\_\_ 315,102 315,102 Research and Development 4,694 4,694 Central Supply and Maintenance 319,796 319,796 Total Research, Development, Test & Evaluation

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#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

#### 02 Feb 2018

Summary Recap of Budget Activities	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Advanced Technology Development	230,376		230,376
System Development And Demonstration	35,060		35,060
Management Support	4,000		4,000
Operational System Development	3,575		3,575
Total Research, Development, Test & Evaluation	273,011		273,011
Summary Recap of FYDP Programs			,

		,
Research and Development	269,436	269,436
Central Supply and Maintenance	3,575	3,575
Total Research, Development, Test & Evaluation	273,011	273,011

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#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

02 Feb 2018

Appropriation	FY 2017 (Base + OCO)	FY 2018 PB Request with CR Adj Base	FY 2018 Total PB Requests* with CR Adj Base	FY 2018 PB Request with CR Adj OCO	FY 2018 Total PB Requests+ with CR Adj OCO
Defense Logistics Agency	189,190	319,796	319,796		
Total Research, Development, Test & Evaluation	189,190	319,796	319,796		

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## Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

02 Feb 2018

Appropriation	FY 2018 Emergency Requests** Emergency	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs	FY 2018	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**	P.L.115-96***	Remaining Req
			*===>>>>>==*===	319,796		319,796
Defense Logistics Agency Total Research, Development, Test & Evaluation				319,796		319,796

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#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

02 Feb 2018

Appropriation	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Defense Logistics Agency	273,011		273,011
Total Research, Development, Test & Evaluation	273,011		273,011

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#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

	Program Element Number	Item	Act	FY 2017 (Base + OCO)	FY 2018 PB Request with CR Adj Base	FY 2018 Total PE Requests* with CR Adj Base	FY 2018 PB Request with CR Adj OCO	
48	0603680S	Manufacturing Technology Program	03	19,736	40,511	40,511		U
50	06037128	Generic Logistics R&D Technology Demonstrations	03	14,541	10,611	10,611		U
51	06037135	Deployment and Distribution Enterprise Technology	03	6,618				υ
53	06037205	Microelectronics Technology Development and Support	. 03	88,369	219,803	219,803		 U
	Advan	aced Technology Development		129,264	270,925	270,925		
127	06050705	DOD Enterprise Systems Development and Demonstration	05	3,661	6,266	6,266		υ
129	06050805	Defense Agency Initiatives (DAI) - Financial System	05	27,194	24,436	24,436		Ū
130	0605090S	Defense Retired and Annuitant Pay System (DRAS)	05	4,768	13,475	13,475		 U _
	Syste	em Development And Demonstration		35,623	44,177	44,177		
15	7 06055025	Small Business Innovative Research	06	4,554				U
17	0 06069425	Assessments and Evaluation's Cyber Vulnerabilities	06					 _U _
	Mana	gement Support		4,554				
24	1 07080115	Industrial Preparedness	07	15,984				U
	3 0708012S	Pacific Disaster Centers	07	1,690	1,770	1,770		υ

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#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	priation: 0 Program Element Number	400D Research, Development, rest a _	Act	FY 2018 Emergency Requests** Emergency	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req Emergency	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency	e
							40,511		40,511	υ
48	06036805	Manufacturing Technology Program	03						10,611	
50	06037125	Generic Logistics R&D Technology Demonstrations	03				10,611		10,611	U U
51	06037135	Deployment and Distribution Enterprise Technology	03							-
53	06037205	Microelectronics Technology Development and Support	03				219,803		219,803	
	7 -)	ced Technology Development			-		270,925		270,925	
	Advar		05				6,266		6,266	υ
12	7 0605070S	DOD Enterprise Systems Development and Demonstration	05							
12	9 0605080S	Defense Agency Initiatives (DAI) - Financial System	05				24,436		24,436	
10	0 06050905	Defense Retired and Annuitant Pay	05				13,475		13,475	υ
10	0 00000000	System (DRAS)					44,177		44,177	
	Syst	em Development And Demonstration					44,1//			υ
- 15	7 0605502S	Small Business Innovative Research	06							υ
17	0 06069428	Assessments and Evaluations Cyber Vulnerabilities	06				~ <i></i>			_
	Mana	gement Support								U
24	11 0708011S	Industrial Preparedness	07							-
	43 07080125	Pacific Disaster Centers	07				1,770	)	1,770	U

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#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

## Appropriation: 0400D Research, Development, Test & Eval, DW

	Program Element Number	Item	Act	FY 2019 Base	FY 2019 OCO	FY 2019 Total	S e C
						49,667	TI
48	0603680S	Manufacturing Technology Program	03	49,667		·	
50	0603712S	Generic Logistics R&D Technology Demonstrations	03	11,778		11,778	ΰ
51	0603713S	Deployment and Distribution Enterprise Technology	03				υ
53	06037205	Microelectronics Technology Development and Support	03	168,931		168,931	υ
	2.1	nced Technology Development		230,376		230,376	
	Adval		05	3,173		3,173	Ũ
127	06050708	DOD Enterprise Systems Development and Demonstration	05	5,1,5			
129	9 0605080S	Defense Agency Initiatives (DAI) - Financial System	05	21,156		21,156	υ
13	0 06050908	Defense Retired and Annuitant Pay System (DRAS)	05	10,731		10,731	υ -
		em Development And Demonstration		35,060		35,060	
	Syst		0.0				Ū
15	7 0605502\$	Small Business Innovative Research	06				
17	0 06069428	Assessments and Evaluations Cyber Vulnerabilities	06	4,000		4,000	
	Mana	agement Support		4,000		4,000	ł
	1 0708011S	Industrial Preparedness	07				U
	13 07080125	Pacific Disaster Centers	07	1,770		1,770	υ (

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#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item 	Act	FY 2017 (Base + OCO)	FY 2018 PB Request with CR Adj Base	FY 2018 Total PB Requests* with CR Adj Base	FY 2018 PB Request with CR Adj OCO	FY 2018 Total PB Requests+ with CR Adj OCO	S e c
244	07080475	Defense Property Accountability	07	2,075	2,924	2,924			ΰ
	Opera	System 	·	19,749	4,694	4,694			
Tota	l Research,	. Development, Test & Eval, DW		189,190	319,796	319,796	<u>_</u>		

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#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

	Program Element Number 	Item	Act	FY 2018 Emergency Requests** Emergency	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**	P.L.115-96***	Remaining Req with CR Adj Base + OCO +	
244	07080475	Defense Property Accountability System	07				2,924		2,924	U
	Opera	ational System Development				••• •• • • • • • • • • • • • • • • • •	4,694		4,694	
Tota	l Research,	, Development, Test & Eval, DW					319,796		319,796	

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#### Defense-Wide FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2019 Base	FY 2019 OCO	FY 2019 Total	S e C
244	0708047S	Defense Property Accountability System	07	1,805		1,805	U
	Opera	tional System Development		3,575	<i></i>	3,575	•
Tota	l Research,	. Development, Test & Eval, DW		273,011		273,011	-

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#### Defense Logistics Agency FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

## Appropriation: 0400D Research, Development, Test & Eval, DW

	Program Element Number	Item	Act	FY 2017 (Base + OCO)	FY 2018 PB Request with CR Adj Base	FY 2018 Total PB Requests* with CR Adj Base	FY 2018 PB Request with CR Adj OCO	FY 2018 Total PB Requests+ S with CR Adj e OCO C
Here 400								
48	06036805	Manufacturing Technology Program	03	19,736	40,511	40,511		U 
50	06037128	Generic Logistics R&D Technology Demonstrations	03	14,541	10,611	10,611		U
51	06037138	Deployment and Distribution Enterprise Technology	03	6,618				U
53	06037205	Microelectronics Technology Development and Support	03	88,369	219,803	219,803		U
		hnology Development		129,264	270,925	270,925		
A	dvanced fec		<u>.</u>	2,661	6,266	6,266		U
127	06050705	DOD Enterprise Systems Development and Demonstration	05	3,661	0,200	0,200		
129	9 06050805	Defense Agency Initiatives (DAI) - Financial System	05	27,194	24,436	24,436		υ
130	0 0605090S	Defense Retired and Annuitant Pay System (DRAS)	05	4,768	13,475	13,475		U 
	Svetem Devel	Lopment And Demonstration		35,623	44,177	44,177		
	-		06	4,554				υ
15	7 0605502S	Small Business Innovative Research	00	1,001				U
17	0 0606942S	Assessments and Evaluations Cyber Vulnerabilities	06					
	Management	Support		4,554	<b>~</b> -			
	1 07080115	Industrial Preparedness	07	15,984				υ
	3 0708012S	Pacific Disaster Centers	07	1,690	1,770	1,770		U
			07	2,075	2,924	2,924		υ
24	14 0708047S	Defense Property Accountability System	07	2,073				·
	Operational	System Development		19,749	4,694	4,694		
		· · ·						

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#### Defense Logistics Agency FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2018 Emergency Requests** Emergency	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req Emergency	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency	S e
							40 E11		40,511	- <del>П</del>
48	0603680S	Manufacturing Technology Program	03				40,511		•	
50	06037125	Generic Logistics R&D Technology Demonstrations	03				10,611		10,611	
51	06037135	Deployment and Distribution Enterprise Technology	03							ט.
53	06037205	Microelectronics Technology Development and Support	03				219,803		219,803	
7	dwanced Tec	hnology Development					270,925		270,925	
	06050705	DOD Enterprise Systems Development and Demonstration	05				6,266		6,266	U
129	06050805	Defense Agency Initiatives (DAI) - Financial System	05				24,436		24,436	
130	06050908	Defense Retired and Annuitant Pay System (DRAS)	05			مہ بن ہے جب میں اور سے سے میں اور	13,475		13,475	
	avetem Deve	lopment And Demonstration					44,177		44,177	
	7 0605502S	Small Business Innovative Research	06							Ŭ
17	0 06069425	Assessments and Evaluations Cyber Vulnerabilities	06							.U
	Management	Support								
	1 0708011S	Industrial Preparedness	07							U 
24	3 07080125	Pacific Disaster Centers	07				1,770		1,770	
24	4 0708047S	Defense Property Accountability System	0,7				2,924	<u> </u>	2,924	l U
	Operational	System Development					4,694		4,694	1

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#### Defense Logistics Agency FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

### Appropriation: 0400D Research, Development, Test & Eval, DW

	Program Element Number	Item	Act	FY 2019 Base	FY 2019 OCO	FY 2019 Total	S e c
48	06036805	Manufacturing Technology Program	03	49,667		49,667	υ
50	0603712S	Generic Logistics R&D Technology Demonstrations	03	11,778		11,778	υ
51	0603713S	Deployment and Distribution Enterprise Technology	03				υ
53	06037205	Microelectronics Technology Development and Support	03	168,931		168,931	υ
A	dvanced Tec	hnology Development		230,376		230,376	
127	06050705	DOD Enterprise Systems Development and Demonstration	05	3,173		3,173	U
129	0605080\$	Defense Agency Initiatives (DAI) - Financial System	05	21,156	:	21,156	υ
130	06050905	Defense Retired and Annuitant Pay System (DRAS)	05	10,731		10,731	
s	ystem Devel	opment And Demonstration		35,060		35,060	
157	06055025	Small Business Innovative Research	06	,			υ
170	06069428	Assessments and Evaluations Cyber Vulnerabilities	06	4,000		4,000	U -
ľ	Management S	Support		4,000		4,000	
24	1 0708011S	Industrial Preparedness	07				υ
243	3 0708012S	Pacific Disaster Centers	07	1,770		1,770	υ
24	4 0708047S	Defense Property Accountability System	07	1,805		1,805	
	Operational	System Development	,	3,575		3,575	

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#### Defense Logistics Agency FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

### Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element Number	Item 	Act	FY 2017 (Base + OCO)	FY 2018 PB Request with CR Adj Base	FY 2018 Total PB Requests* with CR Adj Base	FY 2018 PB Request with CR Adj OCO	FY 2018 Total PB Requests+ with CR Adj OCO	
Total	L Defense L	ogistics Agency		189,190	319,796	319,796	= = = = = = = = = = = = = = = = =		-

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#### Defense Logistics Agency FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

#### Appropriation: 0400D Research, Development, Test & Eval, DW

			FY 2018		FY 2018	FY 2018	
			Less Enacted		Total	Less Enacted	FY 2018
		FY 2018	Div B		PB Requests*	DIV B	Remaining Req
Program		Emergency	P.L.115-96***	FY 2018	with CR Adj	P.L.115~96***	with CR Adj S
Line Element		Requests**	MDDE + Ship	Remaining Req	Base + OCO +	MDDE + Ship	Base + OCO + e
No Number Item	Act	Emergency	Repairs	Emergency	Emergency**	Repairs	Emergency c
			and had been been and true had went that				
Total Defense Logistics Agency					319,796		319,796

R-119PB: FY 2019 President's Budget (Published Version), as of February 2, 2018 at 12:42:22

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#### Defense Logistics Agency FY 2019 President's Budget Exhibit R-1 FY 2019 President's Budget Total Obligational Authority (Dollars in Thousands)

#### Appropriation: 0400D Research, Development, Test & Eval, DW

Line No 	Program Element Number	Item	Act	FY 2019 Base	FY 2019 0C0	FY 2019 Total	S e C
Tota	l Defense Lo	gistics Agency		273,011		273,011	

R-119PB: FY 2019 President's Budget (Published Version), as of February 2, 2018 at 12:42:22



02 Feb 2018

## Defense Logistics Agency • Budget Estimates FY 2019 • RDT&E Program

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

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## Defense Logistics Agency • Budget Estimates FY 2019 • RDT&E Program

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

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

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## Defense Logistics Agency • Budget Estimates FY 2019 • RDT&E Program

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

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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Defense Logistics Agency								Date: February 2018				
<b>Appropriation/Budget Activity</b> 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)				R-1 Program Element (Number/Name) PE 0603680S / Manufacturing Technology Program (ManTech)								
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	0.000	19.736	40.511	49.667	-	49.667	40.848	41.199	41.382	42.169	Continuing	Continuing
IBMP: Improving Industrial Base Manufacturing Processes (formerly Material Availability)	0.000	14.157	16.227	16.109	-	16.109	16.670	16.519	16.686	17.131	Continuing	Continuing
AAA: Maintaining Viable Supply Sources (formerly High Quality Sources)	0.000	4.302	17.103	27.770	-	27.770	19.422	19.749	19.825	20.094	Continuing	Continuing
OOO: Improving Technical and Logistics Information (formerly Industry and Customer Collaboration	0.000	1.277	7.181	5.788	-	5.788	4.756	4.931	4.871	4.944	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 affordably meets the warfighters' needs in a 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 the 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 lower.

DLA ManTech is aligned into three Strategic Focus Areas (SFA): 1) Improving Industrial Base Manufacturing Processes; 2) Maintaining Viable Sources of Supply; and 3) Improving Technical and Logistics Information.

• The Improving Industrial Base Manufacturing Processes SFA includes efforts to reduce industrial base material costs and production lead-times, while improving the quality of DLA managed products. This SFA has supply chain focused execution portfolios for food (Subsistence Network Procurement), Castings (Procurement Readiness Optimization—Advanced Casting Technology), Forgings (Procurement Readiness Optimization—Forging Advance System Technology), Batteries (Battery Network) and Additive Manufacturing.

• Maintaining Viable Supply Sources includes efforts to assure the commercial industrial base can satisfy DLA materiel requirements without relying on foreign sources for microcircuits and critical strategic materials. This strategic focus area mitigates supply issues caused by the lack of a reliable domestic manufacturing capability to produce products or raw materials needed to build and maintain weapon systems. The major focus of the program is maintaining a reliable, trusted, domestic source for

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Defense Logistics	Date: February 2018		
Appropriation/Budget Activity	R-1 Program Element (Number/Name)		
0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3:	PE 0603680S / Manufacturing Technology Program (ManTech)		
Advanced Technology Development (ATD)			
"non producable" linear and digital microcircuits. Microcircuit amulation allows	the Services to save significant costs by using form, fit an	d functionally equivalent chore	

"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.

• The Improving Technical and Logistics Information SFA include efforts to improve and facilitate the exchange of engineering and logistics information among DLA, the Military Services, DLA industry partners and DLA customers. It includes the Military Unique Sustainment Technology (MUST) and the Defense Logistics Information Research (DLIR) programs. 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.

B. Program Change Summary (\$ in Millions)	<u>FY 2017</u>	<u>FY 2018</u>	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	31.259	40.511	50.098	-	50.098
Current President's Budget	19.736	40.511	49.667	-	49.667
Total Adjustments	-11.523	0.000	-0.431	-	-0.431
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	10.000	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-20.185	-			
SBIR/STTR Transfer	-1.338	-			
<ul> <li>Inflation Adjustment</li> </ul>	-	-	-0.431	-	-0.431

## **Change Summary Explanation**

In FY2017, Manufacturing Technology received a Congressional Add for \$10M for the Casting program with emphasis on Steel Castings. Under the FY2017 CR, PE 30603680S was considered a new start so ManTech business was executed under 70708011S resulting in reprogramming amount of \$16.184M. The remaining reprogramming amount is a \$1.963M reprogramming to Generic Logistics R&D as well as the USTRANSCOM amount owed to ManTech in the amount of \$2.218M. Under the FY2017 CR, a portion of ManTech's funding was provided to USTRANSCOM to continue business operations. Upon enactment, the USTRANSCOM funding is being returned to ManTech. In FY2017, the Small Business Innovation Research and Small Technology Transfer Research tax amounted to \$1.338M.

In FY2019, program increased for the development of electron beam manufacturing processes for microcircuits (+\$9.000M – to Maintaining Viable Supply Sources). Inflation adjustments for Non-Pay/Non-Fuel Pay purchases and Civilian Pay decreased the program baseline in FY2019.
Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 D	Defense Log	istics Agen	су					Date: Febr	uary 2018	
Appropriation/Budget Activity 0400 / 3					-	<b>am Elemen</b> 80S / Manuf ManTech)	•		<b>Project (Number/Name)</b> IBMP <i>I Improving Industrial Base</i> <i>Manufacturing Processes (formerly Mate</i> <i>Availability)</i>			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
IBMP: Improving Industrial Base Manufacturing Processes (formerly Material Availability)	0.000	14.157	16.227	16.109	-	16.109	16.670	16.519	16.686	17.131	Continuing	Continuing

#### 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.

The Battery Network (BATTNET) 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 nonrechargeable 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 Servicelevel (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 Subsistence Network (SUBNET) Program is the successor to the Combat Rations Network R&D program. SUBNET 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 with the goals of maximizing capability and capacity to produce, and to encourage innovation and modernization needed to leverage the latest technologies. Desired outcomes include: reduced cost, increased efficiencies, enhanced quality, and improved surge demand capabilities.

The Casting program works to ensure a stable, reliable, and competitive domestic casting industrial base for the weapon system needs of the Department of Defense (DoD). Castings works with industry, universities, and the Casting Industry Associations to identify projects to improve the materials, processes and business practices of the nation's foundry industry. The program aligns its projects with strategic issues and focus areas within the DLA and DoD. 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 ~2% of National Stock Numbered Class IX parts but represent ~5% of all backorders, and when only the oldest backorders are considered, up to 10% are castings. 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 foundry industry,

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agen		Date: February 2018	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
0400/3	PE 0603680S I Manufacturing Technology	IBMP / Imp	proving Industrial Base
	Program (ManTech)	Manufactu	ring Processes (formerly Material
		Availability	)

where these technologies will be tested and implemented, usually in conjunction with the 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 and the Defense Logistics Agency. Working with industry, universities, and the Forging Industry Association to identify projects to improve the materials, processes and business practices of the nation's forging industry. The program aligns its projects with strategic issues and focus areas within the DLA and DoD. 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 ~2% of National Stock Number (NSN) Class IX parts but represent ~5% of all backorders, and when only the oldest backorders are considered, up to 10% 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 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 Additive Manufacturing (AM) objective is to establish AM as an effective alternative to conventional manufacturing and document the process for AM benefits. DLA is pursing all AM technology as a lead-time and inventory reduction enabler. The AM effort pursues alternate means of supply for products that are otherwise non-procurable or susceptible to procurement issues due to an unresponsive manufacturing vendor base. The AM effort includes the identification of AM candidates among the population of products that are needed but hard to obtain, costly or have long manufacturing lead times. The AM effort requires management of 3D digital technical and manufacturing data. In addition, the AM effort includes the development of the processes that will tie the designers, engineers, maintainers, logisticians, procurement managers and the vendor base into a seamless AM procurement stream. Potential 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 2017	FY 2018	FY 2019
Title: Improving Industrial Base Manufacturing Processes (formerly Material Availability)	14.157	16.227	16.109
<b>FY 2018 Plans:</b> The Battery Network will initiate new projects and continue efforts from FY17 for improving the production readiness, transition, and standardization of soldier and system batteries within the DLA supply chain. The Battery Network will also transition new battery manufacturing technologies developed in Small Business Innovative Research (SBIR) - electrode laser cutting, solvent-free electrode production, low cost materials production or recycling, advanced performance cells. DLA will also continue initiatives for manufacturing and material improvements in the vacuum electron tube supply base (used in microwave and radar systems) and pursue additional opportunities.			

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics /	Agency		Date: F	ebruary 2018	3
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603680S <i>I Manufacturing Technology</i> <i>Program (ManTech)</i>		proving l ring Pro	Name) ndustrial Base cesses (forme	
B. Accomplishments/Planned Programs (\$ in Millions)		F۱	2017	FY 2018	FY 2019
The Subsistence Network program plans to initiate and execute short-term SUBNET will also continue to pursue SBIR Topics in Subsistence. The Su community partners (military services, industry, and academia) to leverage modernization, and promote manufacturing improvements in the subsisten	bsistence Network will also continue to work with the latest technologies, encourage innovation and				
The Castings program plans to investigate, develop and deploy innovative supply chains for the Department of Defense and the Defense Logistics Ag Announcement (BAA) closed in FY17 and from that, we competitively awa required to include a business case with specific metrics and a transition p executing projects approved and awarded in prior years.	gency to support the warfighter. A Broad Agency red contracts to fulfill those requirements. Projects v	vill be			
The Forging program will continue executing projects approved and award receive an increase in funding to cover the unfunded requirements identified develop and deploy innovative enterprise and technical solutions to improve the warfighter. We competitively award contracts to fulfill those requirement metrics and transition plan for success.	ed during the PBR17 process. Projects will investig ve forging supply chains for the DoD and DLA to su	jate, upport			
The AM program plans to leverage Industry and the Military Service Engin with the Army, Navy, Marine Corps, Air Force) ORNL and the Department work identified under the respective agreements. Desired outcomes includ methodologies for AM, identification of AM applications for castings and fo castings using AM, exploration of conversion of recyclable materials to AM AM purposes, and optimization of polymer and metal AM production to obt parts. These efforts seek to increase the number of AM parts qualified for lead-time, storage costs, transportation costs, in some cases reduction of options. Overall DLA Enterprise AM efforts will provide alternatives in prod readiness needs.	of Energy by providing funding for AM support act le: acceleration of rapid qualification and certification orging preforms, rapid cast production and repair of a material, improved reverse engineering processes tain land, air and sea and expeditionary platform sp procurement and achieve savings from the associa fuel consumption due to lighter design and materia	ivities on s for pare ated I			
<b>FY 2019 Plans:</b> The Battery Network will initiate new projects for improving the production and system batteries within the DLA supply chain. The program will also le supply chain that have been developed by industry – advanced electrode p	everage new battery manufacturing technologies for	or the			

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Lo	gistics Agency		Date: F	ebruary 2018	3
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603680S <i>I Manufacturing Technology</i> <i>Program (ManTech)</i>		roving l ring Pro	Name) Industrial Bas cesses (forme	
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2017	FY 2018	FY 2019
advanced performance cells, and deep-discharge lithium-ion capation requirements for manufacturing and material improvements in the v					
The Subsistence Network program plans to research and execute a supply chain in FY19, and continue efforts from FY18. The Subsist to leverage technology innovations and promote manufacturing imp Subsistence. The Subsistence Network will work with community p the latest technologies, encourage innovation and modernization, a supply chain.	ence Network will attend subsistence trade and industry e provements. The program will also pursue SBIR Topics in partners (military services, industry, and academia) to leve	erage			
The Castings program plans to research, develop and deploy innov competitive domestic industrial base for the DoD and DLA in suppor competitively awarded contracts to fulfill these requirements; project and a transition plan for success. The Casting program will continu Associations to identify improvements to materials, processes, and Casting program will continue to execute projects approved and aw development and needs while executing projects awarded in FY19.	ort of the needs of the warfighter. The program will use cts are required to include a business case with specific m e to work with industry, academia, and the leading Indust I business practices of the nation's metal casting industry. varded in prior years but will also maintain focus on future	y The			
The Forging program will investigate, develop and deploy innovative supply chain and the forging industry. The program will explore alter modeling to reduce production lead time and costs. Enhancements process and post-processing improvements are some projects that warfighter. The Forging program will also continue to execute project	ernative forging manufacturing methods, materials and to modeling and simulation software coupled with forging align the forging program with fulfilling the needs of the				
The AM Program plans to fund technically proficient efforts that acc for AM items, identify the best AM applications for castings and forg using an AM technical data package at simultaneous geographic po deployed at expeditionary sea, land or air bases. Using market rese Announcements (BAA), DLA R&D will identify the best courses of a data to keep these items competitive. The DLA R&D efforts include effectively manage manufacturing data and maintain a consistent A Collaboration will continue with the Military Service Engineering Su Navy, Marine Corps, Air Force) and the Department of Energy by p	ging preforms, achieve precise repeatability of part fabrications of need and prove the delivery of AM parts to warfig earch, requests for information/proposals, Broad Agency action to negotiate intellectual property for AM fabrication the proof of concept of using digital thread methodologie AM product from design through qualification and accepta apport Activities (via Service-level agreements with the Arr	tion nters s to nce. ny,			

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logis	stics Agency		Date: F	ebruary 2018	
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603680S <i>I Manufacturing Technology</i> <i>Program (ManTech)</i>	Projec IBMP / Manufa Availat	e erly Material		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b> agreements. The partnership with ORNL will allow further options with Military Services and Industry collaboration to develop digital verificat key performance parameters) of AM technical data and first article tes items. These efforts seek to increase the number of AM parts qualifie lead-time, storage costs, transportation costs, in some cases reduction options.	tion and validation (including measures of effectiveness sting for polymers and metals, and critical and non-critic of for procurement and achieve savings from the associ	and cal iated	FY 2017	FY 2018	FY 2019
<b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> FY19 increase is to begin to automate combat rations visual inspection packaging systems for combat rations.	ons and prepare for future innovative nanotechnology				
	Accomplishments/Planned Programs Sub	statale	14.157	16.227	16.10

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

N/A

#### <u>Remarks</u>

## 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.

## E. Performance Metrics

40% of applicable projects (ex. non-studies) will transition.

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2019 E	Defense Log	istics Ager	псу					Date: Feb	ruary 2018	
Appropriation/Budget Activity 0400 / 3						<b>am Elemen</b> 30S <i>I Manul</i> ManTech)					ble Supply	Sources
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
AAA: Maintaining Viable Supply Sources (formerly High Quality Sources)	0.000	4.302	17.103	27.770	-	27.770	19.422	19.749	19.825	20.094	Continuing	Continuing
A. Mission Description and Bud	lget Item J	ustification	<u> </u>									
The Maintaining Viable Supply So customers' material requirements focus area includes within its sco The MAE Roadmap has four maj Roadmap also includes a new ma and has become a significant cor planned on the MAE Roadmap, E	s reliably an pe the form or thrusts ir ajor thrust a ncern. Thes	d consisten er Material n Digital Mic irea: Linear e are classe	tly. Benefits Acquisition rocircuits: A Microcircuit es of microc	include eli Electronics dvanced S s. Over the ircuits that	minating ca (MAE) prog chottky TTL past sever are expected	ncelled requ gram. ., TTL Comp al years, ob ed to becom	uisitions retro patible CMC solescence e non-proce	urned to cus DS, 512 Kilc in this clas urable in FY	stomers as bit RAM/RC s of microci ′ 17 and be	"non-procu DM and Me rcuits has g yond. Withc	rable." This ga Gate AS reatly incre- out the techr	strategic IC. The ased
B. Accomplishments/Planned P	rograms (	in Million	<u>s)</u>						FY	2017 F	Y 2018	FY 2019
Title: Maintaining Viable Supply S	Sources (for	merly High	Quality Sou	irces)						4.302	17.103	27.770
FY 2018 Plans: MAE will continue planning for the consonance with Customer and A Microcircuits in addition to its trad and quality/reliability requirements complete development and transi DLA's ability to re-establish sourc address several discontinued dev NSNs. MAE will also continue dev Application-Specific Integration C begin applying 350 nanometer en	itional focus s for establi tion TTL-Cc ing of non-p rice families velopment c ircuit (ASIC	irements. M s on Digital. shing a bas ompatible C procurable r and will inc of additional ) and 256K	IAE will con Several effores is for product MOS Microor nicrocircuit locrease the p emulation or Read-Only	tinue a ma orts will add ct-oriented circuit Emu NSNs. The otential em capabilities and Rando	jor new thru dress basic developme lation capab newly trans nulation proc including d om-Access I	est in emulat design, man nts across t bility into full sitioned emu- duction enve evelopment Memory Em	tion to addre nufacturing, he FYDP. N I-scale prod ulation capa elope by sev of a 1 millio	ess Linear electrical te IAE will also uction incre bilities will veral hundre on gate	o asing ed			
FY 2019 Plans: MAE will continue planning for the consonance with Customer and A technology node including develo emulation to address Linear Micro	gency requipment of el	iirements. It ectron-bear	will begin d n lithograph	igital micro y technique	ocircuit proc es. MAE wil	ess develop I continue a	ment at the major new	250 nanon thrust in				

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agen	су		Date: F	ebruary 2018	}		
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603680S <i>I Manufacturing Technology</i> <i>Program (ManTech)</i>	AAĂ /	<b>Project (Number/Name)</b> AAA I Maintaining Viable Supply Source (formerly High Quality Sources)				
B. Accomplishments/Planned Programs (\$ in Millions)		ſ	FY 2017	FY 2018	FY 2019		
manufacturing, electrical test and quality/reliability requirements for establishin the FYDP. MAE will complete and transition 20-Volt operational amplifier emul DLA's ability to re-establish sourcing of non-procurable microcircuit NSNs. MA analog switch projects started in FY18. It will continue applying 350 nanometer additional NSNs including 256K Static Random Access Memory (SRAM).	ation capability into full-scale production increa E will continue 40-Volt operational amplifier an	asing Id					
<b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> The proposed FY19 one-year \$9M investment in equipment will graduate the A to be antiquated photolithographic manufacturing techniques to use the more a manufacturing methods, which will support at least two future generations of terms.	advanced electron beam lithography microcircu						
	Accomplishments/Planned Programs Sub	ototals	4.302	17.103	27.770		

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

N/A

<u>Remarks</u>

## 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.

#### E. Performance Metrics

40% of applicable projects (ex. non-studies) will transition.

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 D	Defense Log	istics Agen	су					Date: Febr	ruary 2018	
Appropriation/Budget Activity 0400 / 3		-	30S I Manut	t (Number/ facturing Teo	,	Project (Number/Name)yOOO I Improving Technical and LogisticsInformation (formerly Industry and CustomCollaboration						
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
OOO: Improving Technical and Logistics Information (formerly Industry and Customer Collaboration	0.000	1.277	7.181	5.788	-	5.788	4.756	4.931	4.871	4.944	Continuing	Continuing

#### A. Mission Description and Budget Item Justification

The Improving Technical and Logistics Information 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.

The MUST Program focus addresses GAO Report 12-707 recommendations for DoD to establish a "knowledge-based approach" to collaborate on define and communicate of military unique requirements. DLA has the responsibility to communicate and manage 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 reduce the lead-time between Individual Item and Equipment (IIE) development and sustainment from years to months. The Program focuses on technologies that will transform the military IIE supply chain from an "electronic paper" (i.e. PDF/MS Word) based, manual environment into a knowledge based automated environment. The resulting approach will be a neutral platform that will seamlessly communicate military unique technical requirements throughout the end-to-end supply chain.

The DLIR program researches core technology to improve the quality, speed, and interoperability of logistics data. DLA must transform business practices and methodologies as the data for weapons systems evolves 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 fundamental shift for DLA is driven by the Model-Based Enterprise approach, which is influencing 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 the Defense Standardization Program Office (DSPO) are key stakeholders in the DLIR initiatives to modernize the representation and delivery of weapons systems data. The DLIR program researches and demonstrates the use of innovative technologies to streamline DLA operations; current thrusts include development of logistics data interoperability and availability, and research into the transformation of DLA data repositories to a digitally linked, model-based enterprise.

The Technical and Logistical Data Interoperability will pioneer methods to capture data from military Services, Original Equipment Manufacturers (OEMs), and suppliers to form a seamless thread of interoperable and linked data models.

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

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Log	istics Agency		Date: ⊦	ebruary 2018	
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603680S / Manufacturing Technology Program (ManTech)		proving T n (former	Name) Technical and I Ty Industry an	
B. Accomplishments/Planned Programs (\$ in Millions)		F١	Y 2017	FY 2018	FY 2019
Title: Improving Technical and Logistics Information (formerly Indust	try and Customer Collaboration		1.277	7.181	5.788
<b>FY 2018 Plans:</b> DLIR plans to resume moving DLA from PDF Tech Data to Smart Date technology to improve logistics data across the DLA Enterprise.	ata and Engineering Models and leveraging semantic				
MUST plans to continue test and validation pilots as well as process for prototype development and demonstration to be initiated in FY19		lule			
Emerging Manufacturing Technology program enables DLA to invest implemented in the nearer term, without degrading well established advance those technologies sooner to the warfighter earlier. SBIR pl a prime example of activities that will be funded with these funds, ex addressing strategic materials shortage/risk.	program efforts. This program enables the Agency to hase III efforts (which cannot be funded with SBIR funds				
<b>FY 2019 Plans:</b> DLIR plans to continue assisting DLA improve the quality and interop the defense industrial base. Specifically, DLIR will initiate the Logistic LITE proposes publishing logistics documents as data instead of PD extract and model the data inside the document. This approach will be documents and to ensure broad industry adoption. LITE will enable data sources.	cs Interoperability Technology Extension (LITE) project. F utilizing advanced semantic interpretation techniques be based upon open standards to improve publishability	of			
MUST plans to conduct test and validation pilots, process reenginee (FRD) for transition. The focus will be the Product Test Center (PTC Change Management, the Supply Request Package (SRP) process Schedule for Implementations with complete FRDs will start in FY19	c) industry reporting module, the TexSpec conversion for reengineering and the Shade Instrument Large Scale Pi	Spec			
The EMT program enables DLA to investigate new disruptive technol without degrading well established program efforts. This program er order to provide to the warfighter earlier. SBIR phase III efforts (whic of activities that will be funded with these funds, examples include er strategic materials shortage/risk. Efforts will begin in FY19 to advance approach to take advantage of integrated, computer-based systems	nables the Agency to advance those technologies soone ch cannot be funded with SBIR funds) are a prime examp merging magnetic braking technologies, and addressing ce Digital Manufacturing by developing a comprehensive	r in ble			

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense L	ogistics Agency		Date: F	ebruary 2018	5			
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603680S <i>I Manufacturing Technology</i> <i>Program (ManTech)</i>	000 I Inform	<b>Project (Number/Name)</b> OOO I Improving Technical and Lo Information (formerly Industry and Collaboration					
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b> and various collaboration tools to create and manufacture product Materials requirements will be addressed through the EMT progra		rategic	FY 2017	FY 2018	FY 2019			
FY 2018 to FY 2019 Increase/Decrease Statement: FY19 decrease due to funds realignment to Maintaining Viable Su	pply Sources.							
	Accomplishments/Planned Programs Sul	ototals	1.277	7.181	5.788			

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

N/A

## <u>Remarks</u>

## 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.

## E. Performance Metrics

40% of applicable projects (ex; non-studies) will transition.

Exhibit R-2, RDT&E Budget Iten	Logistics A	gency	gency					Date: February 2018				
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)				A 3:	<b>R-1 Program Element (Number/Name)</b> PE 0603712S <i>I Logistics Research and Development Technology (Log R&amp;D)</i>							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	120.123	14.541	10.611	11.778	-	11.778	12.067	12.358	12.548	12.786	Continuing	Continuing
0: Prior Years	105.030	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
EMM: Enhancing Analysis, Modeling, and Decision Support (formerly Analytic & Decision Support)	3.471	4.090	4.062	4.131	-	4.131	4.223	4.321	4.414	4.496	Continuing	Continuing
GLTD: Improving Logistics Processes (formerly Logistics Process)	5.413	4.990	3.849	3.904	-	3.904	4.015	4.128	4.214	4.280	Continuing	Continuing
04: Emergent Logistics R&D Requirements (formerly Innovative Products & Services for DLA Customers)	6.209	5.461	2.700	3.743	-	3.743	3.829	3.909	3.920	4.010	Continuing	Continuing

## A. Mission Description and Budget Item Justification

The Defense Logistics Agency is responsible for providing to the Military Services, and 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 forces need to operate – including food, uniforms, fuel and energy, medical supplies, construction and barrier materials and equipment, and more than 85 percent of the military's spare parts. DLA also provides logistics services including logistics information data, manages the reutilization of military equipment, and documents automation and production services. DLAs 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. Logistics R&D develops and demonstrates high risk, high payoff technology that provides a significantly higher level of support at the lowest possible costs.

The DLA Log R&D program is organized into three SFAs:

•Enhancing Analysis, Modeling, and Decision Support: R&D efforts to develop decision support tools, such as modeling, simulation, and other analytics to improve operational strategy decision-making, forecasting, and procurement, which support more effective and efficient responses to emerging market and customer requirements.

Improving Logistics Processes: R&D efforts to develop and implement advanced technology in logistics processes over and above current baseline systems.
Emergent Logistics R&D Requirements: R&D efforts to support emergent Logistics R&D requirements that arise out of the budget cycle. These out of cycle requirements always occur. The SFA begins new projects in a timely manner without disrupting ongoing projects by funds reallocation. This SFA scope includes all DLA supply chains and logistics processes.

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 D	efense Logistics A	Agency		Date:	February 2018		
<b>Appropriation/Budget Activity</b> 0400: Research, Development, Test & Evaluation, Defense-N Advanced Technology Development (ATD)	<b>R-1 Program Element (Number/Name)</b> PE 0603712S / Logistics Research and Development Technology (Log R&						
B. Program Change Summary (\$ in Millions)	<u>FY 2017</u>	<u>FY 2018</u>	FY 2019 Base	FY 2019 OCO	FY 2019 Total		
Previous President's Budget	11.011	10.611	11.881	-	11.881		
Current President's Budget	14.541	10.611	11.778	-	11.778		
Total Adjustments	3.530	0.000	-0.103	-	-0.103		
<ul> <li>Congressional General Reductions</li> </ul>	-	-					
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-					
<ul> <li>Congressional Rescissions</li> </ul>	-	-					
<ul> <li>Congressional Adds</li> </ul>	4.000	-					
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-					
Reprogrammings	-0.037	-					
SBIR/STTR Transfer	-0.433	-					
<ul> <li>Inflation Adjustment</li> </ul>	-	-	-0.103	-	-0.103		

#### **Change Summary Explanation**

In FY2017, the Logistics R&D program received a Congressional Add for \$4M to support and advance cellulosic biofuels. The program reprogramed funds to Manufacturing Technology in the amount of \$0.037M. In FY2017, the Small Business Innovation Research and Small Technology Transfer Research tax amounted to \$0.433M.

Inflation adjustments for Non-Pay/Non-Fuel Pay purchases and Civilian Pay decreased the program baseline in FY2019.

Exhibit R-2A, RDT&E Project Ju	chibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agency								Date: February 2018			
Appropriation/Budget Activity 0400 / 3					PE 060371	<b>am Elemen</b> 12S I Logisti ent Technol	ics Researc	h and	<b>Project (Number/Name)</b> 0 <i>I Prior Years</i>			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
0: Prior Years							0.000	0.000	0.000	0.000	Continuing	Continuing

#### A. Mission Description and Budget Item Justification

Prior Years include:

-Medical Logistics Network (MLN): \$10.334M. This project was realigned to Strategic Focus Area (SFA) Emergent Logistics R&D Requirements. The MLN program supports the Medical Directorate's mission to develop and implement the critical logistics and medical supply chain business practices that ensure the cost-effective and efficient distribution of medical materiel to the full range of Military Health System operations.

-Weapon System Sustainment (WSS): \$29.625M. This project was realigned to SFA Improving Logistics Processes. The WSS program spans multiple weapon systems and supply chains to improve internal processes, provide new methods, reduce costs and lead times, and ultimately, improve readiness for DLA customers.

-Supply Chain Management (SCM): \$20.574M. This project was realigned to SFA Emergent Logistics R&D Requirements. The SCM program provides the Agency with the resources needed to quickly take advantage of new ideas emerging from the Center Commanders, Process Owners, or Staff Directors.

-Strategic Distribution & Disposition (SDD): \$19.396M. This project was realigned to SFA Enhancing Analysis, Modeling, and Decision Support. The SDD program improves DLA's distribution and disposition capabilities, operational effectiveness, and efficiency in support of the Services, COCOMs, and DOD in CONUS, OCONUS, and deployed locations.

-Energy Readiness Program (ERP): \$15.796M. This project was realigned to SFA Emergent Logistics R&D Requirements. The ERP includes Program Management Office Support (PMO) for developing program strategies and goals; Alternate Energy Development (AED) to include test and certification to support the addition of synthetic and alternative fuels to mobility fuel specifications and acquisition plan; Improving Class IIIB supply chain through Current Product Improvement (CPI) (such as the study and development of fuel additives and studies to increase sources of supply) and Infrastructure & Process Improvement (such as the development of analytical tools).

-Defense Logistics Information Research (DLIR): \$9.305M. This project was realigned to Industrial Manufacturing PE 70708011S. The DLIR program researches, identifies, and implements potential or existing technologies using high-risk, high payoff tools, methods, techniques, and products. DLIR improves functional and business processes using the latest technologies available to support the nation's warfighter. The technical areas of interest is the development of Logistics Data Interoperability & Availability. Enhances the functionality and compatibility of data in a complex data environment using supply chain relationships and lifecycle management to allow flexible visibility.

Exhibit R-2A, RDT&E Project Ju Appropriation/Budget Activity 0400 / 3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PE 0603712S I Logistics Research and EMN Development Technology (Log R&D) and					Date: February 2018 ject (Number/Name) M I Enhancing Analysis, Modeling, I Decision Support (formerly Analytic & cision Support)					
COST (\$ in Millions)Prior YearsFY 2017FY 2018					FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
EMM: Enhancing Analysis, Modeling, and Decision Support (formerly Analytic & Decision Support)	3.471	4.090	4.062	4.131	-	4.131	4.223	4.321	4.414	4.496	Continuing	Continuin
This SFA funds developments in and procurement strategy decision and Disposition (SDD) thrust will disposition	ons and lead	to faster a	nd more fle	xible respo	nsiveness to	emerging	market and	customer r	equirement	s. The Stra	tegic Distrib	ution
disposition. The mission of the SDD program requirements by leveraging R&D				Disposition S	Services in a	anticipating,	assessing,	and meetir	ig current a	nd future V	/arfighter	
	to infuse inno	ovative so	lutions.	Disposition S	Services in a	anticipating,	assessing,	and meetir	-		Varfighter	FY 2019
The mission of the SDD program requirements by leveraging R&D	to infuse inno Programs (\$ i	ovative sol in Millions	lutions. <u>s)</u>	Disposition S	Services in a	anticipating,	assessing,	and meetir	-			
The mission of the SDD program requirements by leveraging R&D <b>B. Accomplishments/Planned P</b>	to infuse inno <b>Programs (\$ i</b> ing, and Deci and Lithium-Ic	ovative sol in Millions ision Supp on battery	lutions. <u>s)</u> port technology	projects in	support DL/	A Distributio			FY	2017	FY 2018	
The mission of the SDD program requirements by leveraging R&D <b>B. Accomplishments/Planned P</b> <i>Title:</i> Enhancing Analysis, Model <i>FY 2018 Plans:</i> SDD will complete the lead-acid a	to infuse inno <b>Programs (\$ i</b> ing, and Deci and Lithium-Ic am (DMP) to i analytical and Case Analys continue to su	ovative sol in Millions ision Supp on battery identify, ev d decision ses (BCAs) upport the	lutions. <u>s)</u> port technology /aluate, and support to [ ) that suppo Distribution	projects in test disrup DLA Distribu ort DLA Dist Moderniza	support DL/ tive technol ution and Di tribution and tion Program	A Distributio ogies. Sposition Se I Disposition m as necess	ervices provi Services s Sary to iden	de support iding advar trategic	to the	2017	FY 2018	
The mission of the SDD program requirements by leveraging R&D <u>B. Accomplishments/Planned P</u> <i>Title:</i> Enhancing Analysis, Model <i>FY 2018 Plans:</i> SDD will complete the lead-acid a Distribution Modernization Progra <i>FY 2019 Plans:</i> SDD plans to continue providing a analytical tools such as Business decisions. Additionally, SDD will o	to infuse inno <b>Programs (\$ i</b> ing, and Deci and Lithium-Ic am (DMP) to i analytical and Case Analys continue to su ncluding dron <b>ecrease State</b>	ovative sol in Millions ision Supp on battery identify, ev d decision ses (BCAs) upport the he technolo <b>ement:</b>	lutions. <u>s)</u> port technology valuate, and support to I ) that suppo Distribution pgies applic	projects in test disrup DLA Distribu ort DLA Dist Moderniza	support DL/ tive technol ution and Di tribution and tion Program	A Distributio ogies. Sposition Se I Disposition m as necess	ervices provi Services s Sary to iden	de support iding advar trategic	to the	2017	FY 2018	<b>FY 2019</b> 4.13

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agen	Date: February 2018	
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603712S <i>I Logistics Research and</i> <i>Development Technology (Log R&amp;D)</i>	<b>Project (Number/Name)</b> EMM I Enhancing Analysis, Modeling, and Decision Support (formerly Analytic & Decision Support)

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

#### <u>Remarks</u>

Due to the decline of planned requirements, the Medical Logistics Network realigned to the Emergent Logistics R&D Requirements SFA in FY19.

## 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.

## E. Performance Metrics

40% of applicable projects (ex. non-studies) will transition.

Exhibit R-2A, RDT&E Project Ju Appropriation/Budget Activity 0400 / 3	Istification:	PB 2019 L	etense Log	listics Agen	R-1 Program Element (Number/Name)ProjePE 0603712S / Logistics Research andGLTE					Date: February 2018 ct (Number/Name) I Improving Logistics Processes erly Logistics Process)			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020		FY 2022	FY 2023	Cost To	Total Cost	
GLTD: Improving Logistics Processes (formerly Logistics Process)	5.413	4.990	3.849	3.904	-	3.904	4.015	4.128	4.214	4.280	) Continuing	Continuin	
This strategic focus area has 2 th T/Q Process Improvements to re Many T/Q sub-processes involve to the procurement function, such Selected Process Improvements	duce materia interactions as analysis	al and interior with Servio of parts co	nal costs an ce engineer ontent, sour	id improve ing functior ce capabilit	support to w ns, which oft ies and prol	varfighters. en are time blem resolu	Services ha -consuming tion.	ve enginee and costly	ring respon . Other key	T/Q sub-pi	rocesses are	e essential	
T/Q Process Improvements to re Many T/Q sub-processes involve to the procurement function, such Selected Process Improvements 2019 is on the Procurement proc	duce materia interactions as analysis cover proce ess, especia	al and intern with Servic of parts co sses outsid ally aspects	nal costs an ce engineer ontent, sour le the scope driving inte	id improve ing functior ce capabilit e of the Tec	support to w ns, which oft ties and prol chnical/Qual	varfighters. S en are time blem resolu ity (T/Q) fur	Services ha -consuming tion.	ve enginee and costly	ring respon . Other key A processes	T/Q sub-pi are in sco	rocesses are	e essential s for FY	
T/Q Process Improvements to re Many T/Q sub-processes involve to the procurement function, such Selected Process Improvements	duce materia interactions as analysis cover proce ess, especia <b>Programs (\$</b>	al and intern with Servic of parts co sses outsid ally aspects	nal costs an ce engineer ontent, sour le the scope driving inte	id improve ing functior ce capabilit e of the Tec	support to w ns, which oft ties and prol chnical/Qual	varfighters. S en are time blem resolu ity (T/Q) fur	Services ha -consuming tion.	ve enginee and costly	ring respon . Other key A processes	T/Q sub-pi are in sco	rocesses are	e essential	
T/Q Process Improvements to re Many T/Q sub-processes involve to the procurement function, such Selected Process Improvements 2019 is on the Procurement proc <b>B. Accomplishments/Planned P</b>	duce materia interactions as analysis cover proce ess, especia <b>Programs (\$</b> ses (LP) ocurement t ence, Indust	al and intern with Services of parts co sses outsid ally aspects <b>in Millions</b> o implemential Outreact	nal costs an ce engineer ontent, sourd le the scope driving inte b) at their long- ch, and Long	d improve ing functior ce capabilit e of the Tec rnal costs a -term proce g-Term Cor	support to w ns, which off ties and prol chnical/Qual and delays in ess improver ntract cost re	varfighters. iten are time blem resolu ity (T/Q) fur n awards. ment plans. eduction. W	Services ha -consuming tion. hction. Altho Projects w SS will worl	ve enginee and costly ugh all DLA ill focus on k with TQ to	ring respon . Other key A processes FY	T/Q sub-pi are in sco 2017	rocesses are pe, the focu	e essential s for FY FY 2019	
T/Q Process Improvements to re- Many T/Q sub-processes involve to the procurement function, such Selected Process Improvements 2019 is on the Procurement proc <b>B. Accomplishments/Planned F</b> <i>Title:</i> Improving Logistics Process <i>FY 2018 Plans:</i> In FY2018, WSS will work with pr areas of obtaining Market Intellige develop an Anti-Counterfeiting Ro	duce materia interactions as analysis cover proce ess, especia <b>Programs (\$</b> ses (LP) ocurement t ence, Industr badmap of p rking with Pr istrative and	al and intern with Services of parts co sses outsid ally aspects <b>in Millions</b> o implement rojects aimproduction	hal costs an ce engineer ontent, source driving inte driving inte b) ht their long- ch, and Long ed at identif to impleme Lead Time	ing function ce capabilit e of the Teo rnal costs a -term proce g-Term Cor ying and el ent their long Managem	support to w ns, which off ties and prol chnical/Qual and delays in ess improver ntract cost re iminating th g term proce	varfighters. iten are time blem resolu ity (T/Q) fur n awards. ment plans. eduction. W e threat of c ess improve	Services ha -consuming tion. hction. Altho Projects w SS will work counterfeit p	ve enginee and costly ugh all DLA ill focus on with TQ to parts enterin	ring respon . Other key A processes FY the og the follow	T/Q sub-pi are in sco 2017	rocesses are pe, the focu	e essential s for FY FY 2019	

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Lo		Date: February 2018					
Appropriation/Budget Activity 0400 / 3							
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019		
No significant Increase/Decrease in FY19 Budget.							
	btotals	4.990	3.849	3.904			

#### 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 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.

#### E. Performance Metrics

40% of applicable projects (ex. non-studies) will transition.

Exhibit R-2A, RDT&E Project Ju	ustification	PB 2019 E	Defense Log	istics Agen	су					Date: Feb	ruary 2018		
Appropriation/Budget Activity 0400 / 3					PE 0603712S I Logistics Research and 04 I Development Technology (Log R&D) (form					<b>iject (Number/Name)</b> I Emergent Logistics R&D Requirements merly Innovative Products & Services for A Customers)			
COST (\$ in Millions)	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost				
04: Emergent Logistics R&D Requirements (formerly Innovative Products & Services for DLA Customers)	6.209	5.461	2.700	3.743	-	3.743	3.829	3.909	3.920	4.010	Continuing	Continuing	
Emergent Logistics R&D SFA inc energy strategy goals of increasi addresses emerging and out of c high modulus, carbon fiber mater <b>B. Accomplishments/Planned F</b>	ng sources cycle require rial for Defer	of supply, d ments that nse and Na	eveloping a always occi tional Secur	nd impleme ur and new	enting alterr products ar	native fuels und services	under the E developed l	RP. The Suby DLA to in	ipply Chain include inve osts and ris	Manageme stments to o ks of this st	ent (SCM) R qualify dome	oadmap stic, ultra-	
<i>Title:</i> Emergent Logistics R&D R			21							5.461	2.700	3.743	
FY 2018 Plans: SCM will continue to address the head start undertaking new technicut 12 to 24 months off the project implementing new technology soor programs. The Program will initial heater technology so it is more fur service life. The Advanced Therm stocked at DLA, and will provide I requirements of expeditionary for opportunities that exist for DLA vi In FY18, the AM project will be fur Industrial Base Manufacturing Pro- activity for this program.	ological adv t starting lea oner than we te the Advan el-efficient, noelectric He DoD a single ces. Additio a recycling a	vances with ad-times. S ould otherw nced Therm has an incr eater will re e, versatile nally, SCM and recover PE 060368	out disruptir aving the le rise be the c noelectric Te eased heati place the ex heater that will support ry initiatives	ng ongoing ad-time allo ase and ma echnology p ng range, ro kisting Spac reduces the DLA Strate acturing Te	programs. I pows the age aintain cont project to im educed mai ce Heater C e logistics for egic Materia chnology Pl	In the past E ncy to begin inuity of fund prove the cu ntenance re onvective st potprint and ils with one rogram (Mai	DLA R&D ha in to realize if ding and ac urrent therm equirements tandard hea satisfies the or more cos nTech) Proj	as been abl the benefits tivity for ba- noelectric s, and a long aters curren e space hea st saving ect 7 - Impr	e to of seline ger tly iting				

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics	s Agency		Date: F	ebruary 2018	
Appropriation/Budget Activity 0400 / 3	PE 0603712S I Logistics Research and Development Technology (Log R&D)	<b>Project (Number/Name)</b> 04 <i>I Emergent Logistics R&amp;D Requirement</i> (formerly Innovative Products & Services for DLA Customers)			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019
ERP will continue to focus on providing additional alternatives for military to improve specifications and standards for fuel quality, engage in modeli identifying alternative energy sources for Military Customers.					
<b>FY 2019 Plans:</b> SCM will continue to address the emerging opportunities that occur in the produce benefits such as reduced operating costs, enhanced organizatio streamlined customer service. Emerging technology requirements for the in SCM. (Mission moved from Enhancing Analysis, Modeling, and Decisic Advanced Thermoelectric Technology project to improve the current them has an increased heating range, reduced maintenance requirements, and Heater will replace the existing Space Heater Convective standard heate single, versatile heater that reduces the logistics footprint and satisfies the Strategic Materials: Program will address supply chain risks in Strategic alternate materials and sources, recycling or reclaiming strategic materia strategic materials. Artificial Intelligence technologies applicable to logisti prototyped. Applications for Block Chain technologies will be investigated ERP will focus on determining R&D solutions for ongoing issues affecting requirements (e.g. thermal stability, storage stability, ignition capability). in the qualification and certification of alternative fuels to meet military spavailability of military resources necessary to complete these efforts. The appropriate, drone technologies applied to the energy operations.	anal responsiveness and reliability, network resiliency medical supply chain will be addressed, as appropri- on Support SFA.) Additionally, SCM will complete the moelectric heater technology so it is more fuel-efficie d a longer service life. The Advanced Thermoelectric rs currently stocked at DLA, and will provide DoD a e space heating requirements of expeditionary forces and Critical Materials as needed to include qualifying ls, and developing new manufacturing processes for cs operations will be investigated and, where approp d and prototyped in the SCM SFA.	ate e nt, s. riate,			
FY 2018 to FY 2019 Increase/Decrease Statement: Funding increased to develop improvements in the Class IIIB fuel and en alternative bulk liquid fuels and alternative energy for the military services Chemistry and Contamination Identification / Characterization, and Logist	s. Specifically Test Method Developments/Revisions,				
	Accomplishments/Planned Programs Subt	otals	5.461	2.700	3.743
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Ager	Date: February 2018	
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603712S <i>I Logistics Research and</i> <i>Development Technology (Log R&amp;D)</i>	<b>Project (Number/Name)</b> 04 <i>I Emergent Logistics R&amp;D Requirements</i> (formerly Innovative Products & Services for DLA Customers)

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

<u>Remarks</u>

#### 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.

#### E. Performance Metrics

40% of applicable projects (ex. non-studies) will transition.

Exhibit R-2, RDT&E Budget Ite	m Justificati	i <b>on:</b> PB 20 <sup>-</sup>	19 Defense	Logistics A	Jgency					Date: February 2018		
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)					<b>R-1 Program Element (Number/Name)</b> PE 0603713S / Deployment and Distribution Enterprise Technology							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	175.886	6.618	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	182.504
0: Prior Years	62.214	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	62.214
8: Command and Control/ Optimization/Modeling and Simulation	73.951	2.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	75.951
9: Cyber	11.216	1.018	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.234
10A: Global Access	28.505	3.600	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	32.105

#### Note

In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE 0604776F) in order to support auditability, increase management efficiency, and reduce administrative actions.

#### A. Mission Description and Budget Item Justification

USTRANSCOM is tasked to provide globally integrated, agile deployment and distribution solutions as well as related enabling capabilities to support national security, force readiness and sustainability within an increasingly constrained defense budget. Unpredictable/extended global distribution routes, limited visibility of sustainment requirements, force packaging limitations, lift constraints, anti-access/area denial concerns, complex supply chains, as well as non-networked battlefield command and control, planning, and decision support tools impede timely customer logistical support. To project unimpeded global power and influence, USTRANSCOM must have access to relevant, real-time information, invest in enabling capabilities that contribute to mission success, ensure the viability of our capabilities, and implement a relevant transportation strategy. Effective knowledge sharing, decision support and transparency across the joint logistics enterprise, facilitated by secure enterprise-wide visibility into logistical processes as well as the ability to effectively collaborate/operate in a contested cyberspace, is required to promote the effective/efficient/ responsive global management of force projection and sustainment resources.

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 De	efense Logistics	Agency		Date:	February 2018
<b>Appropriation/Budget Activity</b> 0400: Research, Development, Test & Evaluation, Defense-V Advanced Technology Development (ATD)	Vide I BA 3:	<b>R-1 Program El</b> PE 0603713S / L	) ution Enterprise Techno	logy	
B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	6.618	0.000	0.000	-	0.000
Total Adjustments	6.618	0.000	0.000	-	0.000
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
<ul> <li>Reprogrammings</li> </ul>	6.618	-			
SBIR/STTR Transfer	-	-			

## **Change Summary Explanation**

NOTE: In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE 0604776F) in order to support auditability, increase management efficiency, and reduce administrative actions.

Under the FY2017 CR, this program remained in DLA's baseline. Once the budget was enacted, DLA is working, to get the funding returned from USTRANSCOM. Currently, the remaining programs awaiting the return of funds is Generic Logistics R&D (PE 30603712S) and Defense Agencies Initiatives (DAI) (PE50605080S).

Exhibit R-2A, RDT&E Project J	xhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agency									Date: February 2018			
Appropriation/Budget Activity 0400 / 3						am Elemen 3S / Deploy Technology	/ment and L	,	<b>Project (Number/Name)</b> 0 <i>I Prior Years</i>				
COST (\$ in Millions) Prior Years FY 2017 FY 2018 Base					FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
0: Prior Years	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	62.214				

#### A. Mission Description and Budget Item Justification

Prior Years includes:

-Capabilities Based Logistics: \$7.342M. The Department requires procedures and technologies which provide enterprise-level capabilities critical to the distribution system to improve performance of the end-to-end DOD supply chain in direct support of the full range of military operations. Ability to rapidly respond to customers' changing demands, with a reliably high level of service. These needs include: capabilities which enhance any supply or transportation mission (aeromedical, air refueling, joint logistics over-the-shore, and seabasing); analysis, tailoring and implementation of selected best enterprise-level practices from industry; and tools/ procedures to optimize transportation plus supply (distribution) plans and schedules in support of an entire operation. This project addresses the required mission support to combatant commanders and other customers in the area of capability-based logistics.

-Deployment and Distribution Velocity Management: \$6.869M. DOD requires procedures/technologies targeted at optimizing throughput at the nodes and through the conduits of the deployment and distribution supply chains, from origin to point of use and return to include: inventory management enhancers (includes node cargo management/tracking); materiel handling innovations (including methods of reducing handling); improved physical access to nodes (includes aircraft all-weather visual systems); port throughput enhancements (includes in-port time reduction methods); and innovative delivery methods (for example, precision airlift, autonomous re-supply). This project addresses required mission support to combatant commanders and other customers of DOD's distribution and transportation systems in the area of deployment/distribution velocity management.

-Cross Domain Intuitive Planning: \$2.408M. Procedures/technologies which improve decision-making and collaboration within the supply chain, from the planning stage to real-time execution and retrograde operations, without need for highly specialized operators of the tools. Projects in this area address following areas: decision support tools for any echelon of the supply chain or decision-maker, distribution process simulations and models for analysis and training, distribution demand forecasting/execution monitoring tools, on-line training, automated decision-maker support (e.g., queuing, alerting, recommended courses of action), automated status monitoring with information fusion and drilldown capability, and resilient C2 infrastructure capabilities. This project will provide required mission support to combatant commanders and other distribution/transportation customers in the area of collaborative planning/execution/information sharing/decision support tools.

-End-to-End Visibility: \$7.039M. Enhanced end-to-end visibility of all aspects of power projection/sustainment spectrum is required to improve the effectiveness/efficiency of deployment/distribution/redeployment operations to ensure warfighter support and confidence. This requires investigation into next generation Automated Information Technology (AIT)/Total Asset Visibility (TAV) technologies and/or container security to improve end-to-end distribution visibility, enhance planning/execution, and transform sustainment operations. Includes the ability to determine immediate, reliable, and accurate shipment status through system access or event management. Develop an over-arching process/system architecture which will integrate existing and innovative new programs across the supply chain to provide complete In Transit Visibility (ITV) data, to include visibility of non-DoD cargo during humanitarian/disaster relief operations. The ability of USTRANSCOM to supply transportation support for homeland defense and/or disaster relief depends on effective ways to link with other governmental and civilian agencies. Additionally need to explore the many

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agend	су	Date: Februar	y 2018
0400 / 3	R-1 Program Element (Number/Name)ProprintPE 0603713S / Deployment and Distribution0 /Enterprise Technology0 /	oject (Number/Name) Prior Years	

barriers across the Joint Deployment and Distribution Enterprise (JDDE), to include non-DoD government entities, coalition partners, non-government organizations, and commercial industry, which can create confusion/conflict or detract from the optimization of the JDDE.

-Distribution Planning and Forecasting: \$8.504M. There is a lack of collaborative distribution planning, based on an understanding of aggregated customer requirements, for optimizing the end-to-end distribution process. Planning, forecasting and collaboration are insufficiently advanced to fully synchronize people, processes and assets to execute planned operations. Automated tools should be able to dynamically analyze/predict demand and provide input to advanced distribution planning systems. Project investigates the need for flexible end-to-end enhanced modeling and simulation and collaborative decision support tools.

-Joint Transportation Interface: \$14.917M. Synchronizing strategic/theater delivery capabilities to meet increasingly dynamic customer needs. Transportation information exchange across the DOD is inhibited by the disparity of systems, differing data standards, and insufficient interfaces. Queries and retrieval of status and shipment information cannot be executed due to lack of connectivity between the various components of the supply chain. The ability to maintain situational awareness of movements at macro/micro (drill down) levels, with associated force and sustainment cargo on board; to track force packages progress, and rapidly determine the impact of any delays or changes to sailing progress and arrival at port of debarkation; and to conduct "what -if" impact assessment of possible changes to delivery asset's course, speed or departure/arrival information as it relates to force or force package delivery/impact of any change on the closure of force packages in theater is required. The ability of USTRANSCOM to supply transportation support for homeland defense and/or disaster relief depends on effective ways to link with other governmental and civilian agencies. Also need to explore the many barriers across the Joint Deployment and Distribution Enterprise (JDDE), to include non-DOD government entities, coalition partners, non-government organizations, and commercial industry, which can create confusion/conflict or detract from the optimization of the JDDE.

-Distribution Protection/Safety/Security: \$15.135M. The Theater Commander has not always been able to provide the appropriate security in a timely manner during deployment. In some cases there are insufficient security assets to oversee convoy security in-country; therefore, all movement requirements are competing for the same limited resources. Additionally need to explore new, portable methods of detecting hazardous/asymmetric materials in very small quantities to support safe logistics operations. Also explore technologies to enhance the capability to deliver personnel/materiel to anti-access/austere airfields and seaports.

Exhibit R-2A, RDT&E Project Ju	Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agency											Date: February 2018		
Appropriation/Budget Activity 0400 / 3					PE 060371				Project (N 8 I Comma Modeling a	nd and Cor	ntrol/Optimiz	ation/		
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost		
8: Command and Control/ Optimization/Modeling and Simulation	73.951	2.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	75.951		

## A. Mission Description and Budget Item Justification

Capabilities which improve deployment, distribution and supply chain decision-making/collaboration (e.g., planning stage to real-time execution/retrograde operations) without need for highly specialized operators. Projects in this area address the following: decision support tools, distribution process simulations/analytics, distribution demand forecasting/execution monitoring, training, automated decision-maker support (e.g., queuing, alerting, courses of action), automated status monitoring with information fusion to include drilldown capability, and resilient C2 infrastructure capabilities. Current planning/forecasting/collaboration capabilities do not permit full synchronization of people, processes and assets to execute planned operations. Automated tools must be able to dynamically analyze/predict demand and provide input to advanced distribution planning systems to include the capability for Combatant Commanders to manage theater transportation operations from the port of debarkation to the point of need. Transportation information exchange across the DOD is inhibited by disparate systems, multiple data standards and insufficient interfaces. The ability to rapidly determine the impact of any delays/changes and conduct "what -if" impact assessments on the closure of force packages is required. This project addresses the required mission support to combatant commanders and other customers in the area of C2, Optimization, and Modeling and Simulations.

Exhibit R-2A, RDT&E Project J	ustification:	PB 2019 D	efense Log	jistics Agen	су					Date: February 2018			
Appropriation/Budget Activity 0400 / 3						am Elemen 3S / Deploy Technology	ment and L	,	<b>Project (N</b> 9 <i>I Cyber</i>	umber/Nan	ne)		
COST (\$ in Millions) Prior Years FY 2017 FY 2018 Base					FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
9: Cyber						0.000	0.000	0.000	0.000	0.000	0.000	12.234	

#### A. Mission Description and Budget Item Justification

USTRANSCOM requires mission assurance in a persuasive/dynamic cyber environment. USTRANSCOM requires the procedures/technologies to improve cyber surveillance and control of networks across multiple domains and the ability to continue critical network operations in contested unclassified and classified network environments. The Command also needs the ability to differentiate between valid/unauthorized users and determine/quantify the trustworthiness of hardware/software systems. Additionally must have the ability to rapidly analyze & correlate data regarding malicious activities, select/evoke real-time defense actuators, perform automated reasoning capabilities that address data quality issues, and the ability to rapidly return to a known/safe operating state.

Exhibit R-2A, RDT&E Project Ju	stification	PB 2019 D	efense Log	istics Agen	су					Date: February 2018			
Appropriation/Budget Activity 0400 / 3						am Elemen I3S / Deploy Technology	yment and L	,	Project (N 10A / Glob		ne)		
COST (\$ in Millions)					FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost		
10A: Global Access							0.000	0.000	0.000	0.000	0.000	32.105	

#### A. Mission Description and Budget Item Justification

DoD requires procedures/technologies targeted at optimizing throughput at the nodes as well as across the conduits of the deployment and distribution supply chains, from origin to point of use as well as return. Needed capabilities include inventory/cargo management, materiel handling innovations, improved physical node access, port throughput enhancements, innovative delivery methods (e.g., precision airlift, autonomous re-supply), and cargo/container security. This project addresses required mission support to combatant commanders and other customers of DoD's distribution and transportation systems in the area of deployment/distribution velocity management, manned/unmanned systems to the point of effect, and increased global reach in austere/anti-access environments.

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Exhibit R-2, RDT&E Budget Iten	n Justificati	i <b>on:</b> PB 201	19 Defense	Logistics A	gency					Date: Febr	: February 2018				
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 3: Advanced Technology Development (ATD)				A 3:		am Elemen 20S / <i>Microe</i>	•	,	Developme	nt and Supp	upport (DMEA)				
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base							Cost To Complete	Total Cost			
Total Program Element	392.266	88.369	219.803	168.931	-	168.931	172.442	157.720	160.280	170.393	Continuing	Continuing			
001: Technology Development	216.668	44.833	133.074	73.471	-	73.471	75.111	59.200	60.169	61.210	Continuing	Continuing			
003: Trusted Foundry	175.598	43.536	86.729	95.460	-	95.460	97.331	98.520	100.111	109.183	Continuing	Continuing			

#### A. Mission Description and Budget Item Justification

The Department finds it critical to National Security to maintain an ability to produce low volume state-of-the-practice (SOTP) and legacy microelectronics that are unavailable from commercial foundries. The Defense Microelectronics Activity (DMEA) uniquely accomplishes this mission for the Department by providing a guaranteed and Trusted source of supply of microelectronics parts that are essential to combat operations. In addition DMEA provides the rare technology capability to bridge the gap between research and application allowing DMEA to develop, manage and implement innovative microelectronic solutions to enhance mission capability. This unique research and engineering capability will be leveraged to develop low-volume, high mix fabrication processes for state-of-the-art (SOTA) technologies that meet the Department's performance and reliability needs.

This is a critical capability in an atmosphere of diminishing domestic semiconductor manufacturing capability and increasing worldwide supply chain risks with threats to defense microelectronics. Trusted access to SOTA technologies remains a major challenge and therefore it is most important to develop a long term Trusted source for the Department. Threats to Defense Microelectronics include counterfeiting, Trojan horses, specific reliability issues in military environments, and rapid obsolescence coming from an unpredictable and unsecured supply chain. As fiscal pressures force the Department to maintain its weapon systems longer than originally planned, extended combat use increases their attrition and increases the need for DMEA's unique capabilities.

Microelectronics is a crucial technology and central for all operations within the Department. Yet, as vital as this technology is to Department operations, the defense market represents less than 0.1% share of the total global semiconductor market. The Department frequently requires low volume SOTP and legacy microelectronics long after commercial foundries have moved on to advanced technology levels. There is also the major challenge of the ability of Defense R&D Programs to access Trusted SOTA technologies when developing new systems. Consequently, the semiconductor industry does not respond to the Department's particular needs of low volumes, long availability time frames, or its high-level security concerns. To meet these requirements, DMEA procures commercial licenses to organically produce semiconductor technologies that are no longer commercially manufactured or are unavailable due to no-bids owing to low volume requirements. These licenses enable DMEA to be the Department's microelectronics supplier of last resort, providing the Department with a long-term, trusted, and guaranteed source of these critical parts. This proven model can be extended to SOTA technologies by acquiring advanced commercial process Intellectual Property (IP) and implementing it in a copy exact approach.

DMEA provides increasingly rare microelectronics design and fabrication expertise to ensure that the Department can field systems capable of ensuring technological superiority over potential adversaries. DMEA provides decisive, quick turn solutions for defense, intelligence, special operations, cyber and combat missions as well as microelectronic components that are unobtainable in the commercial market. DMEA has established increased ties with the Intelligence Community (IC) and Combatant Commanders to understand their specific threats and opportunities that can be exploited by quicker, more resilient microelectronic solutions. This knowledge of varying

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Defense Logistics	Agency	Date: February 2018
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)		s Technology Development and Support (DMEA)
requirements across a broad and diverse range of combatant environments manage and implement novel microelectronic solutions to enhance mission solutions it develops for its military clientele. After many years of performing that are gained from preceding efforts are incorporated into subsequent tech of US and world microelectronics technology and knows what it takes to ada acquires through technology forecasting, effective modeling/simulation, prote improvements and advancements. DMEA's capabilities make it a key tool th and application of advanced technologies to identified military needs.	capability. DMEA uses these cutting analogous efforts, the technical exp nology maturation projects. DMEA upt the technology for the US warfig otyping and experimentation, DMEA	g-edge technology capabilities and products in the perience, mission knowledge, and practical judgment has years of experience understanding the maturity hter. Based on the results of the knowledge DMEA A influences program requirements with recommended
Working alongside industry, DMEA utilizes a business model that establishe uniquely flexible foundry supports the Department with a wide variety of inte- and which are now guaranteed to remain in one location for as long as they industry partners to acquire process licenses. DMEA incorporates commerci capability. In this way, DMEA revolutionizes the way the Department leverag technologies. In this way, the government ensures perpetual access to this t	grated circuits using various proces are needed. To obtain these proces al technology, along with acceleration ges commercial technology by explo	sses that were developed by commercial manufacturers sses, DMEA works closely with U.S. semiconductor ed acquisition methods to accelerate delivery of needed oiting business-cycle opportunities to access these
These Government-held licenses allow for the transfer to DMEA of industry- commercial conflicts by including industry's right to bid first on resulting prod components. If industry cannot or will not, only then does DMEA provide the this business model work effectively is protection of the industry partners' va and confidence necessary to ensure them that their IP is protected from pote DMEA to use industry-developed IP and processes by acquiring, installing, a This unique capability is essential to all major weapon systems, combat ope industry and Allied nations.	luction volumes. DMEA always look necessary prototypes and low volu luable IP and processes. DMEA is ential competitors. This strategic an and applying them toward meeting t	ks to industry first to see if it can provide the required ume production order. A critical element required to make Government owned and operated, providing the structur ad cooperative industry partnership approach allows the immediate and long-term needs of the Department.
DMEA assists hundreds of Department programs every year. DMEA has prosystems, and even to programs not yet in the production phase. This include Raptor, F-35, RQ-4 Global Hawk, MQ-9 Reaper, AEGIS Advanced Surface Hawk Helicopter, Evolved Sea Sparrow Missile (ESSM), among many other Cyber, Intelligence, and the Radiation-Hard communities.	es the Counter-Rocket, Artillery, and Missile System, Advanced Medium	d Mortar (C-RAM) System, F-18 Super Hornet, F-22 -Range Air-to-Air Missile (AMRAAM), HH-60G Pave

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 D	efense Logistics A	Agency		Date:	February 2018
Appropriation/Budget Activity		R-1 Program Ele	ement (Number/Name)		
0400: Research, Development, Test & Evaluation, Defense-V	Vide / BA 3:	PE 0603720S / A	Microelectronics Techno	logy Development and	Support (DMEA)
Advanced Technology Development (ATD)					
<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2017</u>	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	97.826	219.803	99.734	-	99.734
Current President's Budget	88.369	219.803	168.931	-	168.931
Total Adjustments	-9.457	0.000	69.197	-	69.197
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-8.000	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-1.457	-			
<ul> <li>Inflation Adjustment</li> </ul>	-	-	-0.963	-	-0.963
Program Requirements Increase	-	-	70.160	-	70.160

#### **Change Summary Explanation**

DMEA received a Congressional Rescission in the amount of \$8M for unobligated balances. In FY2017, the Small Business Innovation Research and Small Technology Transfer Research tax amounted to \$1.457M.

Inflation adjustments for Non-Pay/Non-Fuel Pay purchases and Civilian Pay decreased the program baseline in FY2019. The FY2019 increases for continued support for the top four FY2018 microelectronics initiatives, including full access to the GlobalFoundries Fab 8 (14 nm) foundry, associated upgrades to GlobalFoundries's ASIC design, tape-in, and test capabilities to facilitate 14 nm designs for weapon system program support (e.g., Military Global Positioning System (GPS) User Equipment (MGUE), and procurement of foundry process intellectual property.

Exhibit R-2A, RDT&E Project Ju	chibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agency											Date: February 2018		
Appropriation/Budget Activity 0400 / 3						20S I Microe	t (Number/ electronics T port (DMEA	Technology	Project (N 001 / Tech		,			
COST (\$ in Millions)         Prior Years         FY 2017         FY 2018         FY 2019         FY 2019         FY 2019           COST (\$ in Millions)         Years         FY 2017         FY 2018         Base         OCO         Total         FY 2019					FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost				
001: Technology Development	216.668	44.833	133.074	73.471	-	73.471	75.111	59.200	60.169	61.210	Continuing	Continuing		

#### A. Mission Description and Budget Item Justification

The Technology Development funds provide DMEA with the core resources to execute its primary mission of providing an in-house ability to quickly develop and execute appropriate solutions to keep a weapon system operational, elevate its sophistication level, or to meet new threats. These solutions use high mix. low volume, unique microelectronics that are endemic to military requirements but are not commercially available. These funds provide for the development and support necessary to ensure rapid prototyping, insertion, and support of microelectronics technologies into fielded systems, particularly as the technologies advance. Extending this mission to include assured access to Trusted state-of-the-art (SOTA) technologies will more comprehensively ensure the integrity of microelectronics in all critical defense systems. DMEA maintains critical microelectronics design and fabrication skills to ensure that the Department is provided with systems capable of ensuring technological superiority over potential adversaries. DMEA provides an in-house capability to support these strategically important microelectronics technologies with distinctive resources to meet the Department's requirements across the entire spectrum of technology development, acquisition, and long-term support. This includes producing components to meet the Department's requirements for ultra-low volume, an extended availability timeframe, and a trusted, guaranteed and secure supply of microelectronics. These funds provide basic infrastructure upgrades to acquire IP and manufacturing capabilities of SOTA technologies via the copy exact model, as well as an in-house technical staff of skilled and experienced microelectronics personnel working in state-of-the-practice facilities providing technical and application engineering support for the implementation of advanced microelectronics research technologies from inspection and analysis through design, fabrication, test, assembly, integration and installation. These funds also provide for the recapitalization and modernization of aging microelectronic infrastructure, acquisition and implementation of design and test tools, the development of advanced techniques to inspect and analyze circuits, the adaptation of tools and processes to detect increasingly sophisticated counterfeit microelectronics in the defense supply chain, and the incorporation of the process technologies that are necessary to anticipate the needs of the Department as weapon system support requirements migrate toward current state-of-the-art technologies. DMEA's capabilities make it a key resource in the intelligent and rapid application of advanced technologies to add needed performance enhancements in response to the newest asymmetric threats and to modernize aging weapon systems. DMEA designs, develops, and supports vital classified assets for ongoing and time-sensitive specialized intelligence operations and missions of the Department and the Special **Operations Commands.** 

Today's weapon systems experience extended field operations and are required to remain in service beyond planned replacement schedules, driving the need for growth in DMEA's unique capabilities. This need, along with the continual contraction of commercial resources, makes DMEA the only available resource allowing many systems to remain operational. As such, DMEA and its capability are considered National Critical Assets.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Technology Development Accomplishments/Plans	44.833	133.074	73.471
FY 2018 Plans: DMEA will design, develop, and demonstrate microelectronics concepts, advanced technologies, and applications to solve operational problems. DMEA will apply advanced technologies to add performance enhancements in response to the newest			

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Ager	псу	Date: F	ebruary 2018	
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603720S <i>I Microelectronics Technology</i> <i>Development and Support (DMEA)</i>	Project (Number/N 001 / Technology D		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
asymmetric threats and to modernize aging weapon systems. The increased m Combatant Commands (CCMDs) and Special Operations have caused those of demands for DMEA's unique capability to provide quick technical solutions to in increases, DMEA will add capacity and capability by recapitalizing and modern and upgrading process IP, developing advanced techniques to inspect and and detect increasingly sophisticated counterfeit microelectronics to ensure a secur which CCMDs and Special Operations can rely. DMEA will complete installatio begin installation of semiconductor fabrication equipment in the completed clear IP for integration into the 200mm facility.	organizations to dramatically increase their mmediate operational needs. To meet these izing aging microelectronic infrastructure, exte alyze circuits, and adapting tools and processe re supply chain, all to meet quick turn solutions n of the cleanroom in the 200mm facility, and w	s to s on vill		
<b>FY 2019 Plans:</b> DMEA will design, develop, and demonstrate microelectronics concepts, advart operational problems. DMEA will apply advanced technologies to add performat asymmetric threats and to modernize aging weapon systems. The increased m Combatant Commands (CCMDs) and Special Operations have caused those of demands for DMEA's unique capability to provide quick technical solutions to in increases, DMEA will add capacity and capability by recapitalizing and modern and upgrading process IP, developing advanced techniques to inspect and and detect increasingly sophisticated counterfeit microelectronics to ensure a secur which CCMDs and Special Operations can rely. DMEA will complete installatio begin installation of semiconductor fabrication equipment in the completed clear 200mm process IP into the 200mm facility.	ance enhancements in response to the newest hissions seen in the last several years by organizations to dramatically increase their mmediate operational needs. To meet these lizing aging microelectronic infrastructure, exte alyze circuits, and adapting tools and processe re supply chain, all to meet quick turn solutions n of the cleanroom in the 200mm facility, and v	nding s to s on vill		
<b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> FY2019 program decrease reflects a discontinuity in funding for certain FY2018 procurement and integration of 200mm foundry process intellectual property.	8 microelectronics initiatives, including the			
	Accomplishments/Planned Programs Sub	totals 44.833	133.074	73.471
<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 2019	Defense Logistics Agency	Date: February 2018
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603720S <i>I Microelectronics Technology</i> <i>Development and Support (DMEA)</i>	Project (Number/Name) 001 / Technology Development
E. Performance Metrics		
N/A		

Exhibit R-2A, RDT&E Project J	ustification:	PB 2019 D	efense Log	istics Agen	су					Date: February 2018			
Appropriation/Budget Activity 0400 / 3					PE 060372	<b>am Elemen</b> 20S <i>I Microe</i> ent and Sup	electronics	Technology	Project (N 003 / Trust		,		
COST (\$ in Millions) Prior Years FY 2017 FY 2018 Base					FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
003: Trusted Foundry						95.460	97.331	98.520	100.111	109.183	Continuing	Continuing	

#### A. Mission Description and Budget Item Justification

The Department, other agencies, and the intelligence community require uninterruptible access to state-of-the-art design and manufacturing processes to produce custom integrated circuits designed specifically for military purposes. Under DoDI 5200.44, Application Specific Integrated Circuits (ASICs) in critical/essential systems must be procured from Trusted sources in order to avoid altered or sabotaged parts. Worldwide competition from foreign, state-subsidized manufacturing facilities continues to greatly reduce the number of U.S. semiconductor fabrication facilities available to be Trusted sources. The prevalence of sophisticated offshore design and manufacturing facilities. This production capability is of increasing importance as domestic semiconductor manufacturing resources continue to decline, especially in the scarce domestic production capacity of high performance and state-of-the-art semiconductor technologies. Commercial sources of microelectronics remain inherently unpredictable and constitute a continued supply chain risk regardless of Government investment. This trend threatens the integrity and worldwide leadership of the U.S. semiconductor industry by eliminating many domestic suppliers and cryptographic applications, along with most other key defense technologies, depend heavily upon high performance semiconductors where a generation of improvement often translates into significant force multipliers and capability advantages. Important defense technology investments and demonstrations carry size, weight, power, and performance goals that can only be met through the use of the most sophisticated semiconductors.

The Trusted Foundry program provides the Department with access to state-of-the-art microelectronics design and manufacturing capabilities with the added benefit of Trust, if necessary, to meet their confidentiality, integrity, availability, performance and delivery needs. The program also provides the Services and other agencies with a competitive cadre of accredited Trusted suppliers that can meet the needs of their mission critical/essential systems for Trusted integrated circuit components. The Trusted Access Program Office has contracted with commercial sources to satisfy state-of-the-art semiconductor requirements. DMEA will foster all viable alternatives to continue the vital supply of Trusted microelectronics, including the work of the DMEA Trusted Access Program Office with commercial state-of-the-art industry. It is imperative for a wide range of technologies in ongoing and future Department systems that access to Trusted suppliers continues. Most importantly, access to Trusted Microelectronics is absolutely necessary to meet secure communication and cryptographic needs requiring state-of-the-art semiconductor technologies.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Trusted Foundry	43.536	86.729	95.460
<i>FY 2018 Plans:</i> Facilitate the availability of Trusted state-of-the-art semiconductor technology to DoD weapon system programs, research organizations, and other federal agencies through the DMEA Trusted Access Program Office (TAPO) contracts. Initiate efforts to extend Trusted access to 14 nm technology, including the securing of mask manufacturing and upgrading of Trusted ASIC design and test capabilities and capacity to facilitate 14 nm ASIC services needed by multiple DoD programs. Enhance the cadre			

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agency			Date: February 2018									
Appropriation/Budget Activity 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603720S <i>I Microelectronics Technology</i> <i>Development and Support (DMEA)</i>		oject (Number/Name) 3 / Trusted Foundry									
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2017	FY 2018	FY 2019							
of Trusted suppliers for the critical trusted components and services needed fo Microelectronics products to include newly available leading edge technologies Department programs. Expand a line of trusted catalog components that can b activities that provide the Department's programs and other agencies with Trus technologies. Start implementation of an approach for the on-shore fabrication (FPGA). Continue the development of capabilities for the inspection and analys methods for efficiency, accuracy, and applicability to multiple processes.	and other key specialty processes required by e purchased by Defense contractors. Continue sted access to leading edge semiconductor of a Trusted Field-Programmable Gate Array	y e										
<b>FY 2019 Plans:</b> Facilitate the availability of Trusted state-of-the-art semiconductor technology to organizations, and other federal agencies through the DMEA Trusted Access F to extend Trusted access to 14 nm technology for USG use through the TAPO edge technologies. Enhance the cadre of trusted suppliers for the critical trusted defense systems. Enhance Trusted Microelectronics products to include newly key specialty processes required by Department programs. Expand a line of trusted by Defense contractors. Continue activities that ensure the Department has Trusted newlow the development of new capabilities for the inspection a utilized methods for efficiency, accuracy, and applicability to multiple processes	Program Office (TAPO) contracts. Continue effective contracts, and to provide access to other lead ad components and services needed for appropriate available leading edge technologies and other usted catalog components that can be purchas usted access to leading edge semiconductor and analysis of ASICs and continuously refine	ing priate r ed										
<b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> FY2019 program decrease reflects a discontinuity in funding for certain FY2018 the GlobalFoundries 14 nm foundry.	8 microelectronics initiatives, including access	to										
	Accomplishments/Planned Programs Sub	totals	43.536	86.729	95.460							
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A E. Performance Metrics N/A												
Exhibit R-2, RDT&E Budget Item	Justificati	on: PB 201	19 Defense	Logistics A	gency					Date: Febr	uary 2018	
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Appropriation/Budget Activity 0400: Research, Development, Tes System Development & Demonstra		,	se-Wide I B	A 5:	<b>R-1 Progra</b> PE 060507	am Elemen '0S / DoD E	nd Demons	tration				
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	117.472	3.661	6.266	3.173	-	3.173	2.378	1.486	0.743	0.757	Continuing	Continuing
0: Prior Years	100.112	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
09: Enterprise Funds Distribution	3.173	-	3.173	2.378	1.486	0.743	0.757	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). The DLA recognizes that DoD's business enterprise must be closer to its warfighting customers than ever before. Joint military requirements drive the need for greater commonality and integration of business and financial operations.

B. Program Change Summary (\$ in Millions)	<u>FY 2017</u>	<u>FY 2018</u>	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	5.660	6.266	3.200	-	3.200
Current President's Budget	3.661	6.266	3.173	-	3.173
Total Adjustments	-1.999	0.000	-0.027	-	-0.027
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.139	-			
<ul> <li>FY 2017 Request for Additional</li> </ul>	-1.860	-	-	-	-
Appropriations Not Addressed					
Inflation Adjustment	-	-	-0.027	-	-0.027

#### **Change Summary Explanation**

In FY2017, the Small Business Innovation Research and Small Technology Transfer Research tax amounted to \$0.139M. In FY2017, EFD request for additional appropriations was not addressed.

Inflation adjustments for Non-Pay/Non-Fuel Pay purchases and Civilian Pay decreased the program baseline in FY2019.

Exhibit R-2A, RDT&E Project Ju	stification	PB 2019 D	efense Log	jistics Agen	су					Date: Febr	uary 2018		
Appropriation/Budget Activity 0400 / 5					PE 060507	70S I DoD E	<b>t (Number/</b> Enterprise S monstration	ystems	Project (Number/Name) 0 I Prior Years				
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
0: Prior Years	100.112	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

Prior Year includes:

-Business Enterprise Information Services (BEIS): \$13.360M. The BEIS utilized the mature, existing infrastructure of Defense Corporate Database/Defense Corporate Warehouse (DCD/DCW), Defense Departmental Reporting System (DDRS), and Defense Cash Accountability System (DCAS) to provide timely, accurate, and reliable business information from across the DoD to support auditable financial statements as well as provide detailed information visibility for management in support of the Warfighter. The goals of BEIS were to ensure data compliance with Standard Financial Information Structure (SFIS) standards; provide security-defined, enterprise-level access to information for ad hoc management queries; and produce external financial management reports/statements based on standardized data.

-Defense Information System for Security (DISS): \$70.319M. The DISS program was a family of systems solution that specifically addresses the security clearance and suitability determinations requirements of Section 3001 of Public Law 108-458, the Intelligence Reform and Terrorism Prevention Act of 2004 (IRTPA) which requires 90% of all clearances – whether Top Secret, Secret, or Confidential – to be completed within 60 days, as well as supports Homeland Security Presidential Directive 12 (HSPD-12) compliance across the DoD. The DISS electronically collects, reviews, and shares relevant data, government-wide, as mandated by the IRPTA and, guided by relevant Executive Orders, Congress, and GAO recommendations, deliver and maintain an appropriately vetted world-class workforce.

-Defense Travel System (DTS): \$1.423M. The DTS program was a fully integrated, electronic, end-to-end financial management system that automates temporary duty travel for the Department of Defense (DoD). DTS meets unique DoD mission, security and financial system requirements within the guidelines of Federal and DoD travel policies and regulations. DTS automates travel authorizations, reservations and arrangements, voucher processing, payment, reconciliation, accountability and archiving. DTS employs Digital Signature and Login/Authentication which requires users to provide a signed response using a valid DoD Public Key Infrastructure (PKI) certificate to gain access to the DTS application. Travel documents created in DTS are digitally signed with the user's PKI certificate to provide a means of identifying the signer, verifying the document's integrity, and enforcing non-repudiation of the signature by the signer.

-Defense Retired and Annuitant Pay System (DRAS): \$15.010M. The DRAS program established and maintained a modernized retired military pay accounts. DRAS 2 will replace the current Defense Retiree and Annuitant Systems (DRAS) and selected manual processes with proven state of the market technology using Clinger-Cohen guidance for selection of the solution. Rapid fielding techniques will be used to close business process gaps by delivering incremental capability that provides clear financial benefits.

Exhibit R-2A, RDT&E Project Jus	stification:	PB 2019 D	efense Log	istics Agen	ю					Date: Febr	uary 2018	
Appropriation/Budget Activity 0400 / 5		R-1 Progra PE 060507 Developme	'0S I DoD E	•		Number/Name) rprise Funds Distribution						
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
09: Enterprise Funds Distribution	17.360	3.661	6.266	3.173	-	3.173	2.378	1.486	0.743	0.757	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### A. Mission Description and Budget Item Justification

Enterprise Funds Distribution (EFD) is a multi-service/multi-agency solution established as a key initiative to provide full visibility of funds distributed through echelon I and II for the Military Departments and at all levels for the Defense Agencies to improve and modernize the OUSD(C) funds distribution process. 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 2017	FY 2018	FY 2019
Title: Enterprise Funds Distribution (EFD)	3.661	6.266	3.173
Description: EFD will distribute funds to the Military Departments and the Defense Agencies.			
FY 2018 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Log	stics Agency	Date: F	ebruary 2018	}
Appropriation/Budget Activity 0400 / 5	<b>-</b> , , , ,	roject (Number/N 9 / Enterprise Fun		n
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b> Continue development and deployment of EFD Phase 2 requiremen migration wave 1	ts based on user group migration strategy. Deploy user	FY 2017	FY 2018	FY 2019
<b>FY 2019 Plans:</b> Continue development and deployment of EFD Phase 2 requiremen migration wave 2	ts based on user group migration strategy. Deploy user			
<b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> FY2019 is lower due to the majority of EFD's development to be con user migration and their required changes.	upleted in FY2018 and the primary focused to be on Wave	11		
	Accomplishments/Planned Programs Subto	tals 3.661	6.266	3.17

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

N/A

#### **Remarks**

#### 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 needed to ensure EFD is fully implemented for all appropriation data for the Military Services and Defense Organizations has led to a full deployment date of September 2016.

#### E. Performance Metrics

For performance, the objective is that 100% of the SFIS elements are SFIS compliant at FD.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2019 Defe	nse Logi	stics Age	ncy						Date:	February	2018	
Appropriation/Budg 0400 / 5	/Budget Activity						ogram Ele 5070S / D pment and	DoD Ente	rprise Sys		-	terprise Fi		ribution	
Product Developme	nt (\$ in Mi	illions)	ſ	FY	2017	FY :	2018		2019 ase	FY 2 O(	2019 CO	FY 2019 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		0.000		0.000		0.000		0.000	0.000	14.158	14.158
TeraThink Corporation	C/FFP	TeraThink Corporation : Reston, VA	1.710	3.661	Dec 2016	6.266	Dec 2017	3.173	Dec 2018	0.000		3.173	Continuing	Continuing	, Continuin
TBD	C/FFP	TBD : TBD	1.492	0.000		0.000		0.000		0.000		0.000	0.000	1.492	1.492
		Subtotal	17.360	3.661		6.266		3.173		0.000		3.173	Continuing	Continuing	) N/A
		ſ	Prior Years	FY	2017	FY	2018		2019 ase	FY 2 O(		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	17.360	3.661		6.266		3.173		0.000		3.173	Continuing	Continuing	N/A

**Remarks** 

hibit R-4, RDT&E Schedule Profile: PB 2019 Defense Logi propriation/Budget Activity 00 / 5		s Ag	jenc	<u>у</u>	P	E 06	050	)70S	6 I L	DoD	En	terpr	ise	Sys						Num		Nam	ne)		
	F	12	01	7	F	/ 2(	)1	8	F	(2	01	9	F	2(	)2(	)	Y	20	21	F	Y 2	027	2	FY	2023
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4 1		2 3	3	11	2	3	4	1 2	3
Enterprise Funds Distribution (EFD)																									
Enterprise Funds Distribution (EFD)																									

Appropriation/Budget Activity		01111020	19 Detense	Logistics A	gency					Date: Febr	ruary 2018	
0400: Research, Development, Tes	st & Evalua	tion Defen	se-Wide / B	3A 5		am Elemen 30S / Defens			DAI) - Finan	ncial System	7	
System Development & Demonstra							Je / .genere					
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	110.325	27.194	24.436	21.156	-	21.156	23.673	21.806	25.336	25.815	Continuing	Continuir
01: Defense Agencies Initiatives - Financial System	110.325	27.194	24.436	21.156	-	21.156	23.673	21.806	25.336	25.815	Continuing	Continuir
Program MDAP/MAIS Code: Project MDAP/MAIS Code(s): 049	91											
A. Mission Description and Budg												
This program supports the Defens	•	•	,							•		
well as, FY2013 4th Quarter Increa capabilities: (Defense Working Ca							ems prograr	n element (	605070S. I	increment 3	will deliver	new
capabilities. (Delense Working Ca		inu Re-Sale	accounting	y), anu an a	ipplication u							
<b>B. Program Change Summary (\$</b>					••							
D. I Togram onange oummary (#	in Million	s <u>)</u>		<u>FY 2017</u>	<u>FY 201</u>		Y 2019 Bas	<u>se</u>	FY 2019 OC	<u>00</u>	<u>FY 2019 To</u>	otal
Previous President's Budge		<u>s)</u>		<u>FY 2017</u> 30.457	••	1 <u>8</u> F	<b>Y 2019 Ba</b> 40.30		FY 2019 O(	<u>- CO</u>	<b>FY 2019 To</b> 40.3	
	et	<u>s)</u>			FY 201	1 <u>8 F</u> 36		00	FY 2019 O(	<u>-</u>		300
Previous President's Budge	et	<u>s)</u>		30.457	<b>FY 20</b> 1 24.43	1 <b>8 F</b> 36 36	40.30	00 56	FY 2019 OC	<u>20</u> - -	40.3	300 156
Previous President's Budge Current President's Budget Total Adjustments	et t			30.457 27.194	<b>FY 201</b> 24.43 24.43	1 <b>8 F</b> 36 36	40.30 21.15	00 56	FY 2019 OC	<u>-</u> - -	40.3 21.1	300 156
Previous President's Budge Current President's Budget	et t eneral Red	uctions		30.457 27.194	<b>FY 201</b> 24.43 24.43	1 <b>8 F</b> 36 36	40.30 21.15	00 56	FY 2019 OC	<u>-</u> - -	40.3 21.1	300 156
Previous President's Budge Current President's Budget Total Adjustments • Congressional Ge • Congressional Dir	et t eneral Red irected Red	uctions		30.457 27.194	<b>FY 201</b> 24.43 24.43	1 <b>8 F</b> 36 36	40.30 21.15	00 56	FY 2019 OC	<u>-</u> - -	40.3 21.1	300 156
Previous President's Budge Current President's Budget Total Adjustments • Congressional Ge • Congressional Dir • Congressional Re	et t eneral Red irected Red escissions	uctions		30.457 27.194	<b>FY 201</b> 24.43 24.43	1 <b>8 F</b> 36 36	40.30 21.15	00 56	FY 2019 OC	<u>-</u> - -	40.3 21.1	300 156
Previous President's Budge Current President's Budget Total Adjustments • Congressional Ge • Congressional Dir • Congressional Re • Congressional Ad	et t eneral Red irected Red escissions dds	uctions uctions		30.457 27.194	<b>FY 201</b> 24.43 24.43	1 <b>8 F</b> 36 36	40.30 21.15	00 56	FY 2019 OC	<u>-</u> - -	40.3 21.1	300 156
Previous President's Budge Current President's Budget Total Adjustments • Congressional Ge • Congressional Dir • Congressional Ad • Congressional Ad • Congressional Dir	et t eneral Red irected Red escissions dds irected Trar	uctions uctions		30.457 27.194 -3.263 - - - - -	<b>FY 201</b> 24.43 24.43	1 <b>8 F</b> 36 36	40.30 21.15	00 56	FY 2019 OC	<u>-</u> - -	40.3 21.1	300 156
Previous President's Budge Current President's Budget Total Adjustments • Congressional Ge • Congressional Dir • Congressional Ad • Congressional Dir • Reprogrammings	et t eneral Red irected Red escissions dds irected Trar	uctions uctions		30.457 27.194 -3.263 - - - - - - - 2.400	<b>FY 201</b> 24.43 24.43	1 <b>8 F</b> 36 36	40.30 21.15	00 56	FY 2019 OC	<u>-</u> - -	40.3 21.1	300 156
Previous President's Budge Current President's Budget Total Adjustments • Congressional Ge • Congressional Din • Congressional Ad • Congressional Din • Reprogrammings • SBIR/STTR Trans	et t irected Red escissions dds irected Trar s sfer	uctions uctions		30.457 27.194 -3.263 - - - - -	<b>FY 201</b> 24.43 24.43	1 <b>8 F</b> 36 36	40.30 21.15 -19.14	00 56 14	FY 2019 OC	<u>-</u> - -	40.3 21.1 -19.1	300 156 144
Previous President's Budge Current President's Budget Total Adjustments • Congressional Ge • Congressional Dir • Congressional Ad • Congressional Dir • Reprogrammings	et t irected Red escissions dds irected Trar s sfer ent	uctions uctions		30.457 27.194 -3.263 - - - - - - - - 2.400 -0.863	<b>FY 201</b> 24.43 24.43	1 <b>8 F</b> 36 36	40.30 21.15	00 56 14	FY 2019 OC	<u>-</u> - -	40.3 21.1	300 156 144 344

Under the FY2017 CR, a portion of DAI's funding was provided to USTRANSCOM to continue business operations. Upon enactment, the USTRANSCOM funding is being returned to DIA resulting In the reprogramming amount owed to DAI for \$2.4M. FY2017, the Small Business Innovation Research and Small Technology Transfer Research tax amounted to \$0.863M.

Inflation adjustments for Non-Pay/Non-Fuel Pay purchases and Civilian Pay decreased the program baseline in FY2019. FY2019 development will complete developing Defense Working Capital Fund (DWCF) accounting requirements necessary to serve as core and meet DISA requirements, and DeCA Re-sale accounting requirements study (to be developed in FY 2020).

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 D	efense Log	istics Agen	су					Date: Febr	uary 2018	
Appropriation/Budget Activity 0400 / 5					PE 060508	<b>am Element</b> 30S / Defens ancial Syste	(Number/Name) ense Agencies Initiatives - Financial					
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
01: Defense Agencies Initiatives - Financial System	110.325	27.194	24.436	21.156	-	21.156	23.673	21.806	25.336	25.815	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 0491												

#### A. Mission Description and Budget Item Justification

The DAI mission is to deliver auditable Chief Financial Officer (CFO) Act compliant business environments for Defense Agencies providing accurate, timely, authoritative financial data supporting the DoD goal of standardizing financial management practices improving financial decision support, and supporting audit readiness. Currently, Defense Agencies use several different non-compliant financial management systems supporting diverse operational functions and the warfighter in decision-making and financial reporting. These disparate, non-integrated systems do not meet statutory requirements to produce timely, auditable reports.

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 and field activities across the DoD. DAI will support 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 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 is to deploy 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 12.2.5 (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 source).

DAI supports the 2014 Quadrennial Defense Review (QDR) Strategy 5, "Reform the business and support functions of the Defense enterprise". DAI is also aligned to the DOD Agency Strategic Fiscal Years 2015-2018, Goal 5: Reform and Reshape the Defense Institution, Key Strategic Initiative - Improving competitiveness through accountability and efficiency and SO 5.2: Improve financial processes, controls, and information via audit readiness. The objective of the DAI system is to achieve auditable, CFO Act compliant business environments for the Defense Agencies with accurate, timely, authoritative financial data.

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; Procure to Pay (P2P); Acquire to Retire (real property

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics	Agency	Date: F	ebruary 2018	
Appropriation/Budget Activity 400 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605080S <i>I Defense Agencies Initiative</i> ( <i>DAI</i> ) - Financial System	Project (Number/I 01 / Defense Agen System		s - Financial
lifecycle accounting only); Hire to Retire (Time and Labor reporting only); with (P2P) enhancements facilitating SFIS/SLOA compliance and automa accounting and the start of a phased implementation of Governance, Rish Disbursing and Budget Formulation as well as Rel 4 Defense Working Ca	ated Time and Labor absence management. Rel 2 k and Compliance (GRC) capabilities. Future capat	introduced Grants Fi pilities will support R	nancial Mana el 3 Direct Tre	gement easury
DAI is currently implemented at 22 Defense Agencies and the Office of th The program office is also responsible for operational sustainment of the maintenance, and hardware to accomplish the remaining capability devel Attestation Engagements No. 18 (SSAE 18) assertion packages. In 2017	system. Funds are required for additional governm opments and organizational deployments, and initia	ent and contractor s ate the annual State	upport, license	es,
The benefits of DAI are: • Common business processes and Enterprise data standards (i.e., SFIS, • Access to real-time financial data transactions; • Significantly reduced data reconciliation requirements; • Enhanced analysis and decision support capabilities; and • Use of United States Standard General Ledger (USSGL) Chart of Accou			Data Standar	d (PRDS));
The DAI PMO completed the Oracle R12 application upgrade. The DAI P project management; blueprinting; design, build, and unit test; developing objects; testing (cyber security/information assurance, integration, functio change management preparing the users for the cross functional skills an system deployment; conversion; information assurance; sustainment; dat	g required Reports, Interfaces, Conversions, Extens nal, performance, conversion, user acceptance, op nd awareness needed to perform well with an integr	sions, Forms and Wo perational); end-user rated enterprise reso	orkflows (RICE training (train	E-FW) the trainer/
DLA Information Operations provides the program executive officer, programe vecutive officer, programe vecutive officer, programers Information Systems Agency (DISA) Defense Enterprise Computive Operations (COOP) hosting, Technical Contracting Office for developmer PMO serves as systems integrator. Contracted subject matter experts contracted s	iting Centers (DECCs) provide application, develop nt task orders, and the Joint Interoperability Test Co	ment and test as we ommand for Interope	II as Continuit	y of
3. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
Title: Defense Agencies Initiative (DAI) - Financial System		27.194	24.436	21.156
<b>FY 2018 Plans:</b> n FY 2018, the DAI PMO will:	users).			

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Age	ncy		Date: F	ebruary 2018	3
Appropriation/Budget Activity 0400 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605080S <i>I Defense Agencies Initiative</i> (DAI) - Financial System	Project (I 01 / Defei System		Name) cies Initiative	s - Financial
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2017	FY 2018	FY 2019
<ul> <li>Study/develop Agency unique requirements for DISA.</li> <li>Work instructions and training materials.</li> <li>Conduct Follow-on Test and Evaluation (FOT&amp;E) event with using Agencies independent Operational Assessments.</li> <li>Support the FM &amp; time/labor for over 45k users at over 22 Agencies, Field Ade Support the DoD Information Assurance Certification and Accreditation Risk actions included in the Designated Authorizing Authority required Plan of Action Federal Information Systems Controls Audit Manual (FISCAM) Test of Design/award an Authority to Operate.</li> <li>Continue to implement the Governance, Risk and Compliance (GRC) capabil Configuration, Access, Prevention &amp; Transactions supporting audit findings, re</li> <li>Maintain the technical operation including: application of DISA Security Techn currency for servers operating systems, middleware &amp; applications including p DISA Enterprise Computing Center (DECC) enclaves; &amp; the daily operation of DLA Transaction Services as well as established Federal Enterprise system w</li> <li>Conduct regular adversarial assessments, RMF continuous monitoring including to the regular adversarial assessments, RMF continuous monitoring including of the Secretary of Defense oversight. The Defense Logistics Agency will conticonduct the annual FFMIA and SSAE 18 assessments and conduct Cyber sectors.</li> </ul>	ctivities and organizations. Management Framework (RMF) process to su ons and Milestones including an independent (Test of Effectiveness to result in a DAA decisi lities by expanding Enterprise controls: commendations & corrective action plans (CA nical Implementation Guides, hardware & softwatches; overseeing internal processes within the several interfaces with external systems levers reb services. ding code scans, an independent Cyber Econo ation Assessment (CVPA). Connect to the DoD Global Information Grid. y testing with independent third parties under C ract for an independent public accounting firm	on to Ps). ware ne aging mic Dffice			
<ul> <li>FY 2019 Plans:</li> <li>In FY 2019, the DAI PMO will:</li> <li>Field DAI Increment 3 Rel 1 General Fund (GF) accounting to users at a larg</li> <li>Development/Testing for DWCF and agency unique requirements and complecapabilities.</li> <li>Study Agency unique requirements for DeCA.</li> <li>Work instructions and training materials.</li> <li>Conduct an independent operational assessment (OA) of DAI INC 3, REL 1.</li> <li>Support the Financial Management (FM) &amp; time/labor operations for over 45k organizations.</li> </ul>	ete the study of 4th Estate common/core	d			

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Log	istics Agency	Date: F	ebruary 2018				
Appropriation/Budget Activity 0400 / 5	PE 0605080S / Defense Agencies Initiative		<b>oject (Number/Name)</b> I Defense Agencies Initiatives - Financia stem				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019			
<ul> <li>Support the DoD RMF process to support actions included in the D and Milestones including an independent FISCAM Test of Design/Te Authority to Operate.</li> <li>Continue to implement the GRC capabilities by expanding Enterpri Configuration, Access, Prevention &amp; Transactions supporting audit f</li> <li>Maintain the technical operation including: application of DISA Sec currency for servers operating systems, middleware &amp; applications in DECC enclaves; &amp; the daily operation of several interfaces with exterestablished Federal Enterprise system web services.</li> <li>Conduct regular adversarial assessments, RMF continuous monitor Vulnerability Assessment and a Cooperative Vulnerability and Penel</li> <li>Obtain or maintain an interim Interoperability Certification or an Autor of the Secretary of Defense oversight. The Defense Logistics Agence conduct the annual FFMIA and SSAE 18 assessments and conduct FY 2018 to FY 2019 Increase/Decrease Statement:</li> </ul>	est of Effectiveness to result in a DAA decision to award ar ise controls: indings, recommendations & CAPs. urity Technical Implementation Guides, hardware & softw including patches; overseeing internal processes within the ernal systems leveraging DLA Transaction Services as well oring including code scans, an independent Cyber Econom tration Assessment. thority to Connect to the DoD Global Information Grid. ber security testing with independent third parties under Of cy will contract for an independent public accounting firm to Cyber security assessments on the system.	are as ic					
	Accomplishments/Planned Programs Subto	tals 27.194	24.436	21.156			
<ul> <li>C. Other Program Funding Summary (\$ in Millions) N/A</li> <li>Remarks</li> <li>D. Acquisition Strategy</li> <li>DAI is being developed and implemented using an evolutionary/incr changes to the Department's BEA including new laws, regulations a</li> <li>In the Acquisition Decision Memorandum (ADM) of September 23, 2 The Shelf (COTS) application upgrade. The upgrade was completed</li> </ul>	remental strategy including major annual software releases and policies as governed by its Functional Sponsor and Mil 2013, the MDA placed DAI Increment 1 in sustainment. Inc	to accommodate estone Decision A rement 2 addresso	uthority (MDA ed the Comme	.). ercial Off			

The Shelf (COTS) application upgrade. The upgrade was completed (January 2015); therefore, Increment 2 Rel 1 subsumed Increment 1 for all users. A new ADM in June 2017 introduced Increment 3. When Increment 3, Rel 1 goes live, it will subsume Increment 2; therefore, only one DAI production baseline exists at any point in time.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense	Logistics Agency	Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
0400 / 5	PE 0605080S / Defense Agencies Initiative	01 / Defense Agencies Initiatives - Financia
	(DAI) - Financial System	System
E. Performance Metrics		
The following performance metrics will be performed on the DA	l system:	
Functionality: Financial system performance. PEO will determin latest version of the Department's BEA in scope requirements for policy. Objective: Substantial compliance.		
Program Conformance to BEA Processes, Data Standards, and PMO assertion of compliance with the latest version of the Depa		ance with the annual Investment Review of
Net Ready Key Performance Parameter (NR-KPP)		
Attribute (Att) A - Support net-centric DoD military operations		
Mission: Transform the budget, finance, and accounting operati accountability and effective and efficient decision making throug		
A.1. Budget to Report (B2R). DAI provides General Ledger, Tria DAI will measure the percentage of successful attempts to: * Generate and transmit Trial Balance Reports. Objective-95%;	al Balance, Budget Execution, and Financial Reporting Capal	bilities.
* Receive budget information from agency-specific systems, to a * Generate and transmit reports to support period end processir		
A.2 Procure to Pay (P2P). DAI provides the capability to Order I Bills (Accounts Payable), and Create Ready to Pay File.	Materials and Services (Commitments), Record Purchases a	nd Contract Information (Obligations) Pay
DAI will measure the percentage of successful attempts to:		
* Exchange contract, obligation, receipt and invoice information		
* Receive Purchase Card information from external systems to		5%;
* Exchange data across agencies to support intergovernmental		
<ul> <li>* Receive travel related data from external systems to support to * Exchange miscellaneous payment information with trading part</li> </ul>		
A.3. Order to Cash (O2C). DAI provides the capability to Receiv Receivable.	ve Customer Orders, Record Work Performed on the orders,	Bill Customers, and Track Accounts
DAI will measure the percentage of successful attempts to:		

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agen	су	Date: February 2018
Appropriation/Budget Activity 0400 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605080S / Defense Agencies Initiative (DAI) - Financial System	<b>Project (Number/Name)</b> 01 <i>I Defense Agencies Initiatives - Financial</i> <i>System</i>
* Exchange data with external systems to support management of customer or * Exchange receivables data with external systems. Objective-95%; and * Manage exchange collections data with external systems. Objective-95%.	ders. Objective-95%;	
<ul> <li>A.4. Acquire to Retire (A2R). DAI provides the capability to record Asset Acquito:</li> <li>* Receive asset creation information from external systems. Objective-95%;</li> <li>* Accumulate and transmit costs incurred for Capital Assets on Construction in</li> <li>* Generate and transmit property accounting information. Objective-95%;</li> <li>* Receive property maintenance data from external systems. Objective-95%;</li> <li>* Receive disposal of assets information from external systems. Objective-95%;</li> </ul>	Progress (CIP) and Work in Progress (WIP) p	
A.5. Cost Management (formerly Cost Accounting). DAI provides Cost Account DAI will measure the percentage of successful attempts to: * Receive Project Budgets from external systems. Objective-95%; and * Receive cost data to support cost collection processes. Objective-95%.	ting and Allocation Capabilities.	
A. 6. Hire to Retire (H2R). DAI provides Civilian, Military, and Contractor Time * Exchange employee and timekeeping information with external systems. Objective-95%.		ercentage of successful attempts to:
NR-KPP Att B - Managed in the Network		
<ol> <li>Type of Networks that are connected:</li> <li>The DAI application supports multiple Defense Agencies, and thus is accessi browser from his/her agency specific LAN/WAN and/or local site firewall config (NIPRNet) to reach the secure DAI application hosted within the DoD Demilitar</li> <li>The DAI production application is hosted in a DISA DECC environment located</li> </ol>	urations, traversing through the Non-Classifie ized Zone (DMZ) which is controlled and man	d Internet Protocol Routing Network aged by DISA.
<ul> <li>2) Measures of Performance (MOPs) to measure network entrance and manages) Network related (DISA) – as per DISA Catalog of Services</li> <li>-Interactive Availability - Portion of network/system controlled by DISA CSD av</li> <li>-Batch Throughput – Completion rate and delivery by specified time during bates</li> </ul>	ailable to the partner during the interactive wir	ndow
b) Database related (DAI Program Management Office)		

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Age	ency	Date: February 2018
Appropriation/Budget Activity 0400 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605080S <i>I Defense Agencies Initiative</i> (DAI) - Financial System	<b>Project (Number/Name)</b> 01 <i>I Defense Agencies Initiatives - Financial</i> <i>System</i>
-System Availability -On Line user system response		·
<ul> <li>3) Network Management:</li> <li>-The Agency (user) being supported is responsible for the communications in</li> <li>-DISA is responsible for communications on NIPRNet between the end user a</li> <li>-DAI Program Management Office is responsible for activities occurring within</li> </ul>	and the main DAI environment	to connect users to the NIPRNet
<ul> <li>4) Systems Management</li> <li>-NIPRNet and Infrastructure - Centralized within DISA CSD</li> <li>-DAI System – centralized within DAI Program Management Office</li> </ul>		
5) Network Configuration Parameters – N/A (within the realm of DISA managers Supports secure Internet/NIPRNET access to solution. Interactive Availability * Supports secure Internet/NIPRNET access to solution. Batch Throughput. C * Provides adequate system response and availability to support operations. * Provides adequate system response and availability to support operations.	ty. Objective-98.5%; Dbjective-95%; System Availability. (Condition: 5000 users/hou	r) Objective-95%; and
NR-KPP Att C - Effectively Exchange Information. DAI will satisfy all top-level critical Information Exchange Requirements (IERs documented in SV-6. There are 47 data exchanges with other systems. The o available upon request.		
Major Performers:		
CACI Inc Federal Chantilly, VA Global Model Implementation and Compliance Support to DAI		
CACI Inc Federal Chantilly, VA DAI Implementation Support Services		
CACI ISS, Inc Fairfax, VA		

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Ag	gency	Date: February 2018
Appropriation/Budget Activity 0400 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605080S <i>I Defense Agencies Initiative</i> ( <i>DAI</i> ) - Financial System	<b>Project (Number/Name)</b> 01 <i>I Defense Agencies Initiatives - Financial</i> <i>System</i>
Infrastructure Support		
International Business Machines Corporation Reston, VA DAI Global Model Development for Procure to Pay (P2P), Order to Cash (O Retire (B2R), and Customer Application Development (CAD)	2C), Budget to	
CACI Inc Federal Chantilly, VA DAI Global Model Development for Acquire to Retire (A2R), Cost Accounting	g (CA), and Time and Labor (T&L)	
Mythics Inc DBA Virginia Beach, VA Oracle CLM and Purchase Software		
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Exhibit R-3, RDT&E I	Project C	ost Analysis: PB 2	2019 Defe	nse Logi	stics Ager	псу						Date:	February	2018	
Appropriation/Budge 0400 / 5	et Activity	ý				<b>R-1 Program Element (Number/Name)</b> PE 0605080S / Defense Agencies Initiative (DAI) - Financial System					<b>Project (Number/Name)</b> 01 <i>I Defense Agencies Initiatives - Financial</i> <i>System</i>				
Product Developme	nt (\$ in M	illions)		FY	2017	FY 2	2018	FY 2019 Base			2019 CO	FY 2019 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 Compliance Support	Option/ CPFF	CACI Inc Federal : Chantilly, VA	18.540	7.143	Jun 2017	6.489	Jun 2018	-		-		-	0.000	32.172	0.000
DAI Compliance Support Follow-on	C/TBD	TBD : TBD	0.000	0.000		0.000		6.683	Jun 2019	-		6.683	Continuing	Continuing	) Continuin
DAI Implementation Support	Option/ CPAF	CACI Inc Federal : Chantilly, VA	15.600	6.651	Mar 2017	6.151	Mar 2018	-		-		-	0.000	28.402	0.000
DAI Implementation Support Follow-on	C/TBD	TBD : TBD	0.000	0.000		0.000		6.336	Mar 2019	-		6.336	Continuing	Continuing	Continuin
DAI Infrastructure Support	Option/ FFP	CACI ISS Inc : Fairfax, VA	8.183	3.472	May 2017	2.821	May 2018	-		-		-	0.000	14.476	0.000
DAI Infrastructure Support Follow-on	C/TBD	TBD : TBD	0.000	0.000		0.000		1.985	May 2019	-		1.985	Continuing	Continuing	Continuin
Global Model P2P	C/FFP	IBM : Bethesda, MD	19.212	2.715	Aug 2017	-		-		-		-	0.000	21.927	0.000
Global Model P2P Follow- on	C/TBD	TBD : TBD	0.000	0.000		3.418	Aug 2018	-		-		-	Continuing	Continuing	Continuing
Global Model A2R	C/CPFF	CACI Inc Federal : Chantilly, VA	9.012	1.134	Apr 2017	-		-		-		-	0.000	10.146	0.000
Global Model A2R Follow- on	C/TBD	TBD : TBD	0.000	0.000		2.333	Apr 2018	2.403	Apr 2019	-		2.403	Continuing	Continuing	Continuing
DAI Data Conversion Support	Option/ FFP	Terathink : Reston, VA	2.512	0.345	Mar 2017	-		-		-		-	0.000	2.857	0.000
DAI Data Conversion Support Follow-on	C/TBD	TBD : TBD	0.000	0.000		-		-		-		-	Continuing	Continuing	Continuin
Requirements Management (RM) Support	MIPR	DISA : Fort Meade, MD	0.876	0.000	Oct 2017	0.237	Oct 2018	0.159	Oct 2019	-		0.159	Continuing	Continuing	) Continuin
Global Model P2P Option 1 Increase	C/FFP	IBM : Bethesda, MD	0.000	0.000		-		-		-		-	0.000	0.000	0.000
Oracle Time & Labor Software License and Maintenance	C/FP	Mythics, Inc. : Virginia Beach, VA	0.000	1.020	May 2017	-		-		-		-	0.000	1.020	0.000

Exhibit R-3, RDT&E F Appropriation/Budge 0400 / 5	-					<b>R-1 Pro</b> PE 060		efense A	umber/Na Agencies I		<b>Project (Number/Name)</b> 01 <i>I Defense Agencies Initiatives - Financia</i> <i>System</i>				-inancial
Product Developmen	nt (\$ in Mi	illions)		FY 201		FY 2	2018		FY 2019 Base		2019 CO	FY 2019 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
DCPDS/DAI Interface File Changes	MIPR	DLA Finance : Fort Belvoir, VA	0.000	0.014	Feb 2017	0.013	Feb 2018	0.010	Feb 2019	-		0.010	Continuing	Continuing	
Serena Capability	MIPR	TBD : TBD	0.000	0.000		-		-		-		-	Continuing	Continuing	Continuin
Global Model CAD	C/CPFF	CSC : Falls Church, VA	3.205	-		-		-		-		-	0.000	3.205	0.000
Jaws Professional Licenses	C/FFP	Immix : McLean, VA	0.017	-		-		-		-		-	0.000	0.017	0.000
Oracle Advanced Compression Licenses	TBD	TBD : TBD	1.622	-		-		-		-		-	0.000	1.622	0.000
Oracle Contract Lifecycle Management Licenses	C/FFP	Mythics Inc : Virginia Beach, VA	7.408	-		-		-		-		-	0.000	7.408	0.000
Oracle Licenses	MIPR	DISA : Pensacola, FL	5.446	-		-		-		-		-	0.000	5.446	0.000
Kurzweil 5000 508 Assistive Tech Licenses	C/FFP	Envision Technology Inc. : Bethesda, MD	0.008	-		-		-		-		-	0.000	0.008	0.000
Dragon Naturally Speaking 508	C/FFP	Red River Computer Co : Claremont, NH	0.007	-		-		-		-		-	0.000	0.007	0.000
DISA/DITCO Delinquent Balance	MIPR	DISA DITCO : Scott AFB, IL	0.017	-		-		-		-		-	0.000	0.017	0.000
DBTA Section 1553	MIPR	DFAS : Columbus, OH	0.377	-		-		-		-		-	0.000	0.377	0.000
Development Activities	C/TBD	TBD : TBD	0.000	-		0.000		-		-		-	Continuing	Continuing	Continuin
		Subtotal	92.042	22.494		21.462		17.576		-		17.576	Continuing	Continuing	g N/A
Support (\$ in Millions	upport (\$ in Millions)			FY 2	2017	FY 2	2018		2019 Ise		2019 CO	FY 2019 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	0.000	1.112		0.892		0.785		-		0.785	Continuing	Continuing	Continuin
		Subtotal	0.000	1.112		0.892		0.785		-		0.785	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2019 Defe	nse Logi	istics Age	ncy						Date:	February	2018	
Appropriation/Budg 0400 / 5	et Activity	1				R-1 Program Element (Number/Name) PE 0605080S / Defense Agencies Initiative (DAI) - Financial SystemProject (N 01 / Defense 					fense Age		iatives - F	inancial	
Test and Evaluation	(\$ in Milli	ons)		FY 2017		FY 2018		FY 2019 Base			2019 CO	FY 2019 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	10.242	2.696	Oct 2016	-		0.894	Oct 2018	-		0.894	Continuing	Continuing	Continuing
Interoperability	MIPR	JITC : Fort Meade, MD	3.273	0.134	May 2017	0.281	May 2018	0.290	May 2019	-		0.290	Continuing	Continuing	Continuing
Performance and Regression Testing	MIPR	JITC : Fort Huachuca, AZ	1.936	0.710	Oct 2016	0.721	Oct 2017	0.600	Oct 2018	-		0.600	Continuing	Continuing	Continuing
Operational Test and Evaluation	MIPR	JITC : Fort Huachuca, AZ	2.749	0.000	Dec 2016	0.982	Dec 2017	1.011	Dec 2018	-		1.011	Continuing	Continuing	Continuing
DCPS Testing	MIPR	DFAS : Indianapolis, IN	0.083	0.048	Oct 2016	0.098	Oct 2017	0.000	Oct 2018	-		0.000	Continuing	Continuing	Continuing
Hosting Activities	TBD	TBD : TBD	0.000	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	18.283	3.588		2.082		2.795		-		2.795	Continuing	Continuing	N/A
			Prior Years	FY	2017	FY	2018		2019 ase		2019 CO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	110.325	27.194		24.436		21.156		-		21.156	Continuing	Continuing	N/A

**Remarks** 

	RDT&E	Schedul	e Profile: P	B 2019 Defens	se Logistic	s Agency						Date:	February 20 <sup>2</sup>	18
<b>Appropriatio</b> n 0400 / 5	n/Budg	et Activit	ty				PE 0605	<b>ram Eleme</b> 080S / Defer nancial Syst	nse Agenci		Project ( 01 / Defe System			es - Financial
						DAL	ncren	nent 3						
Quarter/FY	Q4/FY17	Q1/FY18 Q2/FY	18 Q3/FY18 Q4/FY1	8 Q1/FY19 Q2/FY19 Q	Q3/FY19 Q4/FY19				Q3/FY21 Q4/FY21	Q1/FY22 Q2/FY22	Q3/FY22 Q4/FY22	Q1/FY23 Q2/	FY23 Q3/FY23 Q4/F	~
Phases	-	100		ê 199		Acquis	ition, Testing,	& Deployment IPR		IPR		EDD		FD
Decision Reviews	•	IPR Inc 2 Rel 4 Depk Rel 1 Dev Decisi	ryment	IPR Rel 1 Deployment Rel 2 Dev Decision stign Hardware Available	~	Rel 2 Deployment Rel 3 Dev Decision	<u></u>	Rel 3 Deployment Rel 4 Dev Decision	♦	Rel 4 Deplyment Rel 5 Dev Decision	C	FDD IPR Rel 5 Deploym er	nt	
Logistics							RMF Co	ntinuous Monitoring						
Systems Engineering (Tech Reviews)		Wor	Correst Lat Correst Lat Correst Lat (Ref 1)	R PCA FCA SRR PDR Desi 1) (Rel 1) (Rel 2)	A         PRR           grn         PRR           ps         (Rel 2)           DR SIT         UAT           TRR         TRR           (Rel 2)         (Rel 2)	A A PCA FCA SRR PDR Des (Rel 2) (Rel 3) (Rel 2) (Rel 3) OTRR (Rel 2) (OT&E)	ign PRR ps (Rel 3 CDR SIT UAT TRR TRR (Rel 3)	A A PCA FCA SRR PDR De (Rel 3) (Rel 4) OTRR (Rel 3) (OA)	sign PRR ops (Rel 5 CDR SIT UAT TRR TRR (Rel 4)	CA FCA SRR PDR Desi (Rel 4) (Rel 4) (Rel 4) (FOT&E)	gn PRB ps (Rel 5)	(Rei 5)	5) (E)	R
Development		Rel 1 Anely	rsis\Design\UT	Rel 2 Analysis\De:	sign\UT	Rel 3 Analysis\De	sign\UT	Rel 4 Analysis\De	esign\UT	Rel 5 Analysis\De	≕ign\UT			
Workforce Prep		Re	1 1 Training	Rel 2 Tro	sining	Rel 3T	reining	Rel 4 Tr	raining	Rel STr				
Developmental Test Operational Test	E	SSAE 1	Assessment DIT SIT LIAT REG Com pliance Assessment DLA ICOFS BEA/FFMA BEA/FFMA ITC FR	SFIS Comp DLA	essment SIT UAT REG Dience Assessment ICOFS BEA/FFMIA	SSA ±18 Acs DT SRS Comp DLA	ESSIMENT REG Mience Assessment ICOFS BEA/FFMIA JITC IOT&E Report	SRS Com DLC ormance Testing - Contin	BEA/EFMIA JITC OA Report	SFIS Comp DLA	ESA/FFMA BEA/FFMA BEA/FFMA BEA/FFMA	SF	IS Com pliance Assessment DLA ICOFS BEA/FFMIA	
								nteroperability - Monthi Sec 508	y					
Cybersecurity	E		A CEVA AA 200P A JITC Fine Report	AA CEVA CEVA I JTC Final Report	Adve	rseriel Assessments indu	AA de monthly ACAS, W A JITC Finel Report	CVPA CEV/ ebinepect Some, JTC Re COOI	d Team assessments 8	CVPA CEVA A DLA Blue Team Assesson COOP	A AA ents A JITC Finel Report		CBVA AA CBVA AA COOP A ITC Finel Report	
Data Conversion			ete Conversion Modks	Dete Co	onversion Mocks 🔶	Data Con	version Modks 🕴 🌢	Data Cor	nversion Modes 🕴 🔶	Data Con	version Modks 🕴		ata Conversion Mocks	•
Release Deployments: RL0 (DISAGF, 4th Easte DWCD) Estate DW.G, D.4CA Weigen RL0- ausiness: Process Meturetion/Stabilizetion ML0- Omcile Fusion/RL3 Study RL0- Application Upgrade to Omcile Fusion/RL3	v	Time r	DISA	Arel 1 Go Live		A Rel 2 Go Live	T&L so live DeCA	A Rel 3 Go Live		Arel 4 Go Live		A Rel 5 Go Live		
508: Section 508/058 AA: Advers arial Aasses ACAS: Assured Compl ATO: Authority to Opt & COOP) ATP: Authority to Pro BEA: Business Enterpu COM: Center for Cour COB: Critical Design R CEVA: Cyber Economi COOP: Continuity of C CVPA: Cooperative Vu Assessment	is ment liance Asses erate (Inclue ceed Decisio rise Architec ntermeas ure Review c Vulnera bil D perations T	des Production on Review ture s lity Assessment resting	DCAA: Defense C DCFO: Deputy C1 DCMA: Defense 1 DCMA: Defense 1 DMEA: Defense 1 DMEA: Defense 1 DMEA: Defense 5 DOD K1: DoD Inst DOD K1: Director Development DSCA: Defense 5 DT: Development DT: Development	oector General Operational Test & ecurity Cooperation Age	FDD: Full FFF Full FI Informati FYF FOT&E: F y GRC: Gov IA: Inform ICO F5: Ini Systems IOC: Initia IOC: Initia IOC: Initia	Pederal Financial Ma ion Act vernance, Risk and Cv vernance, Risk and Cv nation Assurance ternal Controls over al Operational Capab itial Operational Tes ocess Review t Interoperability Tes	n nagement aluation smpliance Financial ility t & Evaluation	OA: Operational Ass OTA: Operational Te OTR: R: Operational Te P2P: Procure to Pay PCA: Physical Config PDR: Preliminary De Pen Test: Penetratio PER P: Performance 1 PIR: Post implement PROD: Production R: Release R12: Oracle E-Busin REG: Regression Tes	ist Authority TRR guration Audit isign Review in Test (Black Team) Test tation Review hess Suite, Release	SFIS-CA: Stand Structure - SIT: Systems in SOD: Segregati SRR: Software SSAE 16: Staten Attestation Stds: Standards T&D: Test and T&D: Test and T&L: Time & La	ion of Duties Requirements Rev ment of Standards Engagement s Development abor liness Review	mation UT: U sment WHS Up for an *Not office Defe (DTR	L: United States Stan init Test Washington Headqu dated Decemb e: WHS deploymentine s. Pentagon Force Prot ner TestResource s Mar MC), Defence Legal Ser pourt of Appeals For Arm	arters Service <b>Der 21, 2017</b> Iudes OSD Secre tariat ection Agency, agement Center vices Agency (DLSA) &

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Defense Logistics Agency			Date:	February 2018		
Appropriation/Budget Activity 0400 / 5		rogram Element (Number/Name)Project (005080S / Defense Agencies Initiative01 / Defe- Financial SystemSystem				
Sc	hedule Details					
	Star	t		End		
Events by Sub Project	Quarter	Year	Quarte	r Year		
Defense Agencies Initiative (DAI)						
Defense Agencies Initiative (DAI)	1	2014	4	2023		

-	Justificati	OII: PD 20	19 Defense	Logistics A	gency					Date: Febr	uary 2018	
propriation/Budget ActivityD0: Research, Development, Test & Evaluation, Defense-Wide I BAstem Development & Demonstration (SDD)COST (\$ in Millions)Prior YearsFY 2017FY 2018tal Program Element27.8154.76813.475Defense Retired and27.8154.76813.475					<b>R-1 Progra</b> PE 0605090				nt Pay Syste	em (DRAS)		
COST (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Fotal Program Element	27.815	4.768	13.475	10.731	-	10.731	6.609	1.769	1.805	1.839	Continuing	Continuin
01: Defense Retired and Annuitant Pay System 2 (DRAS)	27.815	4.768	13.475	10.731	-	10.731	6.609	1.769	1.805	1.839	Continuing	Continuin
3. Program Change Summary (\$ Previous President's Budge		<u>s)</u>		<u>FY 2017</u> 7.949	<b>FY 201</b> 13.47		<b>Y 2019 Bas</b> 2.22		FY 2019 OC	<u>-</u>	FY 2019 To	
<u>3. Program Change Summary (\$</u>	in Million	<u>s)</u>		<u>FY 2017</u>	<u>FY 2018</u>	<u>B</u> <u></u>	Y 2019 Bas	<u>se</u>	FY 2019 OC	<u>;0</u>	FY 2019 To	otal
Current President's Budge				7.949 4.768	13.47		2.22			-	2.2 10.7	
Total Adjustments				-3.181	0.000		8.50			-		505
Congressional Ge	eneral Red	uctions		-3.101	0.000	5	0.50	))		-	0.0	00
Congressional Dir				_	_							
Congressional Re				-	-							
Congressional Ad				-	-							
Congressional Dir		nsfers		-	-							
Reprogrammings				-	-							
<ul> <li>SBIR/STTR Trans</li> </ul>	sfer			-0.181	-							
• EV 2017 Deguard												
Appropriation Not A	for Additio	nal		-3.000	-			-		-		-

#### **Change Summary Explanation**

FY2017, the Small Business Innovation Research and Small Technology Transfer Research tax amounted to \$0.181M. In FY2017, DRAS2 request for additional appropriations was not addressed.

The program increase in FY2019 in the amount of \$8.505M is for system development, testing, training and hosting activities.

Exhibit R-2A, RDT&E Project Just Appropriation/Budget Activity 0400 / 5	istics Agen	<b>R-1 Progr</b> PE 060509	<b>am Elemen</b> 90S I Defen Pay System	se Retired a	01 I Defen	Date: February 2018 ect (Number/Name) Defense Retired and Annuitant Pay em 2 (DRAS)						
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
01: Defense Retired and Annuitant Pay System 2 (DRAS)	27.815	4.768	13.475	10.731	-	10.731	6.609	1.769	1.805	1.83	9 Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Systems (DRAS) and selected ma systems and business processes, <u>B. Accomplishments/Planned Pr</u>	the reduct	ion of syste	m redundar						tion.		f disparate [ FY 2018	DRAS FY 2019
<i>Title:</i> Defense Retired and Annuita <i>FY 2018 Plans:</i> Issue a Task Order for: - Final Build development - Perform System Integration, Inter - User Training - Establish production hosting envir	roperability	, User Acce	eptance Tes				ing			4.768	13.475	10.731
<b>FY 2019 Plans:</b> The system will transition to DFAS	during FY	2020.										
FY 2018 to FY 2019 Increase/De Decrease in FY2019 as a result of			uirements.									
					Accomplis	shments/Pl	anned Prog	grams Sub	totals	4.768	13.475	10.731
<u>C. Other Program Funding Summ</u> N/A <u>Remarks</u> <u>D. Acquisition Strategy</u> DRAS2 achieved Milestone B in A	August 2016	6 and enter										eved a
successful Critical Design Review	in Decemb	oer 2017 an	id is now pro	oceeding to	o System De	evelopment.	DRAS2 is	scheduled	tor Full Dep	oloyment d	uring FY20.	

PE 0605090S: *Defense Retired and Annuitant Pay System...* Defense Logistics Agency

Exhibit R-2A, RDT&E Project Justification: PB 2019 [	Defense Logistics Agency	Date: February 2018
Appropriation/Budget Activity 0400 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605090S <i>I Defense Retired and</i> <i>Annuitant Pay System (DRAS)</i>	<b>Project (Number/Name)</b> 01 <i>I Defense Retired and Annuitant Pay</i> <i>System 2 (DRAS)</i>
E. Performance Metrics	·	
N/A		

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	019 Defe	nse Logi	stics Age	псу						Date:	February	2018		
Appropriation/Budge 0400 / 5	t Activity	,				<b>R-1 Program Element (Number/Name)</b> PE 0605090S <i>I Defense Retired and</i> <i>Annuitant Pay System (DRAS)</i>						<b>Project (Number/Name)</b> 01 <i>I</i> Defense Retired and Annuitant Pay System 2 (DRAS)				
Product Developmer	nt (\$ in Mi	illions)		FY	2017	FY	2018		2019 Ise		2019 CO	FY 2019 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	
DRAS2 System Development and Integration	Option/ IDIQ	CSRA : Chantilly, VA	13.096	0.000	Oct 2018	4.280	Jan 2018	7.931	Oct 2018	0.000		7.931	Continuing	Continuing	Continuing	
DRAS2 COTS License Purchase	Option/ IDIQ	CSRA/Oracle : To be Determined	10.443	3.586	May 2017	0.000		0.000		0.000		0.000	Continuing	Continuing	14.110	
DISA Hosting	MIPR	Virtual Operating Environment : Mechanicsburg, PA	0.721	0.332	Nov 2017	1.200	Jan 2018	1.000	Jan 2019	0.000		1.000	Continuing	Continuing	2.590	
Transaction Services Interface Design	Option/ IDIQ	Northrop Grumman DLA Transaction Services : Chambersburg, PA	2.900	0.850	May 2016	0.452	Nov 2017	0.000		0.000		0.000	Continuing	Continuing	4.162	
Transaction Services Interface Development & Testing	Option/ IDDQ	Northrop Grumman DLA Transaction Services : Chambersburg, PA	0.655	0.000		0.900	Jul 2018	0.900	Jul 2019	0.000		0.900	Continuing	Continuing	1.910	
DRAS2 System Development & Integration	Option/ IDIQ	CSRA : Chantilly, VA	0.000	0.000		6.643	May 2018	0.000		0.000		0.000	Continuing	Continuing	6.643	
Interoperability Testing	MIPR	Joint Interoperability Test Command (JITC) : Fort Meade, MD	0.000	0.000		0.000		0.900	Oct 2018	0.000		0.900	Continuing	Continuing	0.900	
	-	Subtotal	27.815	4.768		13.475		10.731		0.000		10.731	Continuing	Continuing	N/A	
			Prior Years	FY	2017	FY	2018		2019 Ise		2019 CO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract	
		Project Cost Totals	27.815	4.768		13.475		10.731		0.000		10.731	Continuing	Continuing	N/A	

Remarks

PE 0605090S: *Defense Retired and Annuitant Pay System...* Defense Logistics Agency

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Defense Logistics Agency	Date: February 2018		
Appropriation/Budget Activity 0400 / 5			<b>umber/Name)</b> se Retired and Annuitant Pay ′DRAS)

# DRAS2 Top Level Schedule (TLS)



1

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Exhibit R-2, RDT&E Budget Iter	n Justificat	<b>ion:</b> PB 20 <sup>-</sup>	19 Defense	Logistics A	gency					Date: Febr	uary 2018	
Appropriation/Budget Activity           0400: Research, Development, Test & Evaluation, Defense-Wide I BA 6:           RDT&E Management Support					<b>R-1 Program Element (Number/Name)</b> PE 0605502S / Small Business Innovative Research (SBIR)							
COST (\$ in Millions)Prior YearsFY 2017FY 2018Base					FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	23.043	4.554	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
01: Small Business Innovative Research	23.043	4.554	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 Department'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 2017</u>	<u>FY 2018</u>	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	4.554	0.000	0.000	-	0.000
Total Adjustments	4.554	0.000	0.000	-	0.000
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
<ul> <li>Reprogrammings</li> </ul>	-	-			
SBIR/STTR Transfer	4.554	-			

#### **Change Summary Explanation**

FY2017 Small Business Innovation Research and Small Technology Transfer taxes for DLA programs amounted to \$4.554M which established the baseline or this program element.

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 D	efense Log	istics Agen	су					Date: Febr	uary 2018	
Appropriation/Budget Activity 0400 / 6									umber/Name) Business Innovative Research			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
01: Small Business Innovative Research	23.043	4.554	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

This program 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 SBIR and Small Business Technology Transfer (STTR) programs will develop new dual-use technologies for possible future DLA operational and sustainment 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 identified from within several DLA Elements:

J6 R&D

- Nuclear Enterprise Support Office (NESO) Alternative Sources of Supply
- Additive Manufacturing Technologies, Process Controls, and Supply Chain
- Advanced Battery Manufacturing
- Advanced Aircraft Braking Systems
- Anti-Counterfeiting Technologies
- Medical 3D Printing of Prosthetics
- Seamless Self Sealing Fuel Bladders and Inflatables
- Strategic Materials Rare Earth Element Source Development
- Warehouse Modernization Technologies
- Subsistence Supply Chain Solutions
- Land & Maritime (L&M) Alternative Sources of Supply
- US Navy LCAC Power Supply Source Development
- US Air Force F-107 Engine Replacement Parts Source Development

#### DMEA

- Advanced microelectronics concepts, technologies, and applications

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agen	ю		Date: Fe	ebruary 2018	
Appropriation/Budget Activity 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605502S / Small Business Innovative Research (SBIR)		ct (Number/N Small Business		Research
B. Accomplishments/Planned Programs (\$ in Millions)		ſ	FY 2017	FY 2018	FY 2019
Title: SBIR Accomplishments/Plans			4.554	0.000	0.000
<b>FY 2018 Plans:</b> DLA SBIR/STTR: To continue execution of all active Phase I and Phase II SBIF 2018.1 BAA's (Broad Agency Announcements), DLA expects twelve new topics area which will exhaust the FY 18 DLA SBIR funds. Upon completion, all active for Phase II awards. DLA expects to award 12 new Phase II award. All Phase II Support Agreement . Continue execution of all active Phase I STTR projects. Upon completion, all active compete for Phase II awards. Expect to award a single Phase II in early FY18.	s. Anticipate the selection of one to three topic Phase I projects have the opportunity to com I awards utilize OSD/OSBP funding (\$12M) pe	s per pete			
DMEA SBIR/STTR: DMEA will continue execution of all active SBIR projects. A progress to Phase II. DMEA will begin to study the feasibility of a high-brilliance development for a broadband quadrature mixer with integrated I/Q mismatch ca circuit reconstruction system	e 9KeV x-ray source. DMEA will complete prote	otype			
<b>FY 2019 Plans:</b> DLA SBIR/STTR: Continue execution of all active Phase I and Phase II SBIR/S and other divisions with DLA to identify requirements that meet DLA's long and guidance and mentorship to Phase II to projects to increase the likelihood of tra commercial vultures.	short term Strategic Objectives. Provide adeq	quate			
DMEA SBIR/STTR: DMEA will continue to seek innovative technical solutions t needs and increase private-sector commercialization of these innovations.	o DoD microelectronics research and develop	ment			
	Accomplishments/Planned Programs Sub	totals	4.554	0.000	0.000
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u>					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Ager	Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agency       Date: February 2018						
Appropriation/Budget Activity	<b>.</b> ,	Project (Num	ber/Name)				
0400 / 6		01 / Small Bus	siness Innovative Research				

#### D. Acquisition Strategy

The SBIR acquisition process seeks to match projects with DLA's Strategic Focus Areas. The goal is to align SBIR/STTR developed technology with current and future DLA requirements. DLA solicits All new project execution work through the DoD SBIR Broad Agency Announcement (BAA). There are three separate solicitation periods throughout each year. (Jan-Feb, May-Jun, and Sep-Oct)

#### E. Performance Metrics

SBIR /STTR programs measure performance in two separate metrics

1. Phase Progression: In terms of progression from Phase I to Phase II, to Phase III, DLA deems each successive progression success. DLA Seeks to have a 30% progression from one Phase to the next as a minimum.

2. Commercialization: The Congressional language defines "Commercialization," which is clarified by the Office of Secretary of Defense Office of Small Business Programs (OSD/OSBP) Re-Authorization Policy Directive:

- (Investment) The process of developing products, processes, technologies, or services; and/or

- (Sales) The production and delivery (whether by the originating party or by others) of products, processes, technologies, or services for sale to or use by the Federal Government or commercial markets

The Small Business Administration and OSD/OSBP assign a Commercialization Index based on progression within the Phases and reported successes

	in ouotinout	ion: PB 201	19 Defense	Logistics A	gency					Date: Febr	ruary 2018		
<b>Appropriation/Budget Activity</b> 0400: Research, Development, T RDT&E Management Support	Fest & Evalua	ation, Defen	se-Wide I B	A 6:	<b>R-1 Program Element (Number/Name)</b> PE 0606942S <i>I Cyber Vulnerability Assessment and Mitigation</i>								
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
Total Program Element	-	0.000	0.000	4.000	-	4.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
CVAM: Cyber Vulnerability Assessment and Mitigation	0.000	0.000	0.000	4.000	-	4.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
mitigations. The Cyber Vulneral cyber vulnerability assessments		noni and M			nues the cv	her hardeni	na of critical	linfrastructu	Ind for DLA	Fuel Dietrik	nution by co	nducting	
		el distributio	on infrastruc	tures.	-		-				-	-	
B. Program Change Summary	(\$ in Million	el distributio	on infrastruc	ctures. FY 2017	FY 201	<u>8</u> <u>F</u>	Y 2019 Bas	<u>se</u> <u> </u>	ure for DLA FY 2019 O(		FY 2019 To	otal	
B. Program Change Summary Previous President's Bud	<b>(\$ in Million</b> get	el distributio	on infrastruc	otures. FY 2017 0.000	<u>FY 201</u> 0.00	1 <u>8</u> 10	<b>Y 2019 Bas</b> 0.00	<u>se</u> <u> </u> )0			FY 2019 To 0.0	<u>otal</u> 000	
<b><u>B. Program Change Summary</u></b> Previous President's Bud Current President's Budg	<b>(\$ in Million</b> get	el distributio	on infrastruc	tures. <u>FY 2017</u> 0.000 0.000	FY 201	1 <u>8 F</u> 00 00	EY 2019 Bas 0.00 4.00	<u>se  </u> )0 )0			FY 2019 To 0.0 4.0	<u>otal</u> 000 000	
<u>B. Program Change Summary</u> Previous President's Bud Current President's Budg Total Adjustments	<b>(\$ in Million</b> get et	el distributio <u>s)</u>	on infrastruc	otures. FY 2017 0.000	<u>FY 201</u> 0.00	1 <u>8 F</u> 00 00	<b>Y 2019 Bas</b> 0.00	<u>se  </u> )0 )0			FY 2019 To 0.0 4.0	<u>otal</u> 000	
B. Program Change Summary Previous President's Bud Current President's Budg Total Adjustments • Congressional	<b>(\$ in Million</b> get et General Red	el distributio <u>s)</u> uctions	on infrastruc	tures. <u>FY 2017</u> 0.000 0.000	FY 201	1 <u>8 F</u> 00 00	EY 2019 Bas 0.00 4.00	<u>se  </u> )0 )0			FY 2019 To 0.0 4.0	<u>otal</u> 000 000	
<u>B. Program Change Summary</u> Previous President's Bud Current President's Budg Total Adjustments	( <mark>\$ in Million</mark> get et General Red Directed Rec	el distributio <u>s)</u> uctions	on infrastruc	tures. <u>FY 2017</u> 0.000 0.000	FY 201	1 <u>8 F</u> 00 00	EY 2019 Bas 0.00 4.00	<u>se  </u> )0 )0			FY 2019 To 0.0 4.0	<u>otal</u> 000 000	
B. Program Change Summary Previous President's Bud Current President's Budg Total Adjustments • Congressional • Congressional	( <b>\$ in Million</b> get et General Red Directed Rec Rescissions	el distributio <u>s)</u> uctions	on infrastruc	tures. <u>FY 2017</u> 0.000 0.000	FY 201	1 <u>8 F</u> 00 00	EY 2019 Bas 0.00 4.00	<u>se  </u> )0 )0			FY 2019 To 0.0 4.0	<u>otal</u> 000 000	
B. Program Change Summary Previous President's Bud Current President's Budg Total Adjustments • Congressional • Congressional • Congressional	( <b>\$ in Million</b> get et General Red Directed Rec Rescissions Adds	el distributio <u>s)</u> uctions luctions	on infrastruc	tures. <u>FY 2017</u> 0.000 0.000	FY 201	1 <u>8 F</u> 00 00	EY 2019 Bas 0.00 4.00	<u>se  </u> )0 )0			FY 2019 To 0.0 4.0	<u>otal</u> 000 000	
B. Program Change Summary Previous President's Bud Current President's Budg Total Adjustments • Congressional • Congressional • Congressional • Congressional	( <u>\$ in Million</u> get et General Red Directed Rec Rescissions Adds Directed Tran	el distributio <u>s)</u> uctions luctions	on infrastruc	tures. <u>FY 2017</u> 0.000 0.000	FY 201	1 <u>8 F</u> 00 00	EY 2019 Bas 0.00 4.00	<u>se  </u> )0 )0			FY 2019 To 0.0 4.0	<u>otal</u> 000 000	

Program Establishment - - 4.000 -

#### **Change Summary Explanation**

This is a new PE in FY 2019. This is a continuation of efforts funded within the management support for the Office of the Secretary of Defense PE 0604942D8Z Assessments and Evaluation.

4.000

Exhibit R-2A, RDT&E Project J	ustification:	PB 2019 D	efense Log	jistics Agen	су					Date: Feb	oruary 2018	
Appropriation/Budget Activity 0400 / 6					PE 060694	<b>am Elemen</b> 12S / Cyber nt and Mitig	Vulnerabilit	y .	<b>Project (Number/Name)</b> CVAM <i>I Cyber Vulnerability Assessment</i> <i>and Mitigation</i>			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
CVAM: Cyber Vulnerability Assessment and Mitigation	0.000	0.000	0.000	4.000	-	4.000	0.000	0.000	0.000	0.000	) Continuing	Continuin
Quantity of RDT&E Articles	-	-	-	_	-	-	-	-	-	-		
A. Mission Description and Bu In section 1650 of Public Law 1 <sup>2</sup> conduct cyber vulnerability evalu mitigations. The Cyber Vulnerab cyber vulnerability assessments	14-328, the N uations of crit pility Assessn	lational Def tical military nent and Mi	ense Autho installation tigation pro	s by Decen gram contir	nber 31, 20	19. The fund	ding provide	d is for critic	cal infrastru	cture asse	ssments and	d
B. Accomplishments/Planned	Programs (\$	in Million	<u>s)</u>						FY	2017	FY 2018	FY 2019
Title: Cyber Vulnerability Assess	sment and M	itigation								0.000	-	4.00
FY 2019 Plans: Conduct cyber vulnerability asse	ssments and	l mitigation	on existing	DLA Fuel D	Distribution I	nfrastructur	e					
FY 2018 to FY 2019 Increase/D Program is established within DI			=Y2019.									
					Accomplis	shments/Pla	anned Prog	grams Subt	otals	0.000	-	4.00
C. Other Program Funding Sur N/A Remarks	nmary (\$ in	<u>Millions)</u>										

Exhibit R-2, RDT&E Budget Item	n Justificat	ion: PB 20 <sup>-</sup>	19 Defense	Logistics A	gency					Date: February 2018			
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Developmer		ntion, Defen	se-Wide I B	A 7:	-	am Elemen 1S / Indust	•	•					
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
Total Program Element	131.718	15.984	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	147.702	
0: Prior Years	109.875	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	109.875	
17: Improving Industrial Base Manufacturing Processes (formerly Material Availability)	5.293	4.800	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	10.093	
18: Maintaining Viable Supply Sources (formerly High Quality Sources)	10.188	8.590	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	18.778	
19: Improving Technical and Logistics Information (formerly Industry and Customer Collaboration)	6.362	2.594	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.956	

#### A. Mission Description and Budget Item Justification

The Defense Logistics Agency (DLA) Industrial Preparedness Manufacturing Technology (IP ManTech) Program supports the development of a responsive, world-class manufacturing capability to affordably meet the warfighters' needs throughout the defense system life cycle. IP ManTech: Provides the crucial link between invention and product application to speed technology transitions. The program matures and validates emerging manufacturing technologies to support low-risk implementation in industry and Department of Defense (DoD) facilities, e.g. depots and shipyards. It addresses production issues early by providing timely solutions, thereby reducing risk and positively impacting system life cycle affordability by providing solutions to manufacturing problems before they occur.

Beginning in FY16, DLA ManTech was realigned into three Strategic Focus Areas (SFA): 1) Improving Industrial base Manufacturing Processes; 2) Maintaining Viable Sources of Supply; and 3) Improving Technical and Logistics Information.

• The Improving Industrial Base Manufacturing Processes SFA includes efforts to reduce industrial base material costs and production lead-times, while improving the quality of DLA managed products. This SFA subsumed the former supply chain oriented efforts in Subsistence Network (formerly known as the Combat Rations Network for Technology Implementation), Procurement Readiness Optimization—Advanced Casting Technology (PRO-ACT), Procurement Readiness Optimization—Forging Advance System Technology (PRO-FAST), and Battery Network (BATTNET). New manufacturing processes within the scope of this SFA include emerging technologies such as Additive Manufacturing.

Maintaining Viable Supply Sources includes efforts to assure the commercial industrial base can satisfy DLA materiel requirements. This SFA subsumed the Material Acquisition Electronics ManTech efforts. In the future, it will include other DLA efforts to maintain a viable industrial capability in areas such as Strategic Materials.
 The Improving Technical and Logistics Information SFA include efforts to improve and facilitate the exchange of engineering and logistics information among DLA

industry partners and customers. It includes the MANTECH program Military Uniform System Technology (MUST) (formerly known as Customer Driven Uniform

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 D	efense Logistics A	gency		Date:	February 2018				
Appropriation/Budget Activity		R-1 Program Ele	ement (Number/Name)	· · · · ·					
0400: Research, Development, Test & Evaluation, Defense-V	Vide I BA 7:	PE 0708011S / Industrial Preparedness							
Operational Systems Development									
Manufacturing) and the Defense Logistics Information Resea	arch Program from	P.E. 0603712S.	A primary focus of this S	SFA is to capitalize on t	he emerging "Model				
Based Enterprise" paradigm and the semantic web as an en	abler to a logistics	system that is sm	nart and connected.						
NOTE: The single supply shain subibits were removed as the			ave i bita						
NOTE: The single supply chain exhibits were removed as th	ey are now include	a within the SFA	exhidits.						
<u> 3. Program Change Summary (\$ in Millions)</u>	FY 2017	<u>FY 2018</u>	FY 2019 Base	FY 2019 OCO	FY 2019 Total				
Previous President's Budget	0.000	0.000	0.000	-	0.000				
Current President's Budget	15.984	0.000	0.000	-	0.000				
Total Adjustments	15.984	0.000	0.000	-	0.000				
<ul> <li>Congressional General Reductions</li> </ul>	-	-							
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-							
<ul> <li>Congressional Rescissions</li> </ul>	-	-							
<ul> <li>Congressional Adds</li> </ul>	-	-							
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-							
Reprogrammings	15.984	-							
SBIR/STTR Transfer									

#### Change Summary Explanation

Under the FY2017 CR, PE 30603680S was considered a new start so ManTech business was executed under this PE resulting in a reprogramming amount of \$15.984M. See PE 30603680S for data.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agency										Date: February 2018		
Appropriation/Budget Activity 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0708011S <i>I Industrial Preparedness</i>				Project (Number/Name) 0 / Prior Years			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
0: Prior Years	109.875	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	109.875
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### A. Mission Description and Budget Item Justification

#### Prior Year includes:

-Combat Rations (CORANET): \$6.632M. This project was realigned to Strategic Focus Area (SFA) Improving Industrial Base Manufacturing Processes. In 2015, DLA R&D expanded the Combat Rations Network (CORANET) program to include the "Subsistence Supply Chain (SUBNET)," which consists of the supply chain for military subsistence, including combat rations, field feeding equipment, garrison feeding and "market fresh." The goal of the SUBNET program is to maximize the capability and the capacity to produce and to encourage innovation and modernization needed to leverage the latest technologies.

-Customer Driven Uniform Manufacture (CDUM): \$18.499M. This project was realigned to SFA Improving Technical and Logistics Information. The CDUM program concluded in October 2014, and the results have been implemented DOD wide for recruit items. Residual CDUM projects have been transitioned into the Military Unique Sustainment Technology (MUST) Program. The MUST Program was initiated in 4th quarter 2014. The strategic objective of the DLA MUST program is to identify, develop and adopt technologies that can significantly reduce the lead-time between Individual Item and Equipment (IIE) development and sustainment from years to months. The Program focuses on technologies that will transform the military IIE supply chain from an "electronic paper" (i.e. PDF/MS Word) based, manual environment into a knowledge based automated environment. The resulting approach will be a neutral platform that will seamlessly communicate military unique technical requirements throughout the end to end supply chain.

-Procurement Readiness Optimization - Advanced System Technology (PRO-ACT): \$12.409M. This project was realigned to SFA Improving Industrial Base Manufacturing Processes. The Castings consortium objective is to develop new materials and technologies for the metalcasting industry to help DLA improve the supply of parts that contain castings. 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 ~2% of National Stock Numbered Class IX parts but represent ~5% of all backorders, and when only the oldest backorders are considered up to 10% are castings. 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 foundry industry, where the technologies will be tested and implemented in conjunction with the industry associations. These advancements will improve the metal casting supply chains for the DOD and the DLA to better support the warfighter. This is achieved through investments in projects aimed at reducing lead-time, reducing cost, and improving quality of castings critical to DOD weapon systems. The increase in funding will help develop new technology for casting suppliers, including inspection, materials, modeling, and design.

-Procurement Readiness Optimization - Forging Advanced System Technology (PRO-FAST): \$5.627M. This project was realigned to SFA Improving Industrial Base Manufacturing Processes. The Forgings consortium objective is to develop new materials and technologies for the forging industry to help DLA improve the supply of parts that contain forgings. 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 ~2% of National Stock Numbered Class IX parts but represent ~5% of all backorders, and when only the oldest backorders are considered up to 10% 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 the technologies will be tested and implemented in conjunction with the industry associations.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agency Date: February 2018												
Appropriation/Budget Activity 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0708011S / Industrial Preparedness	<b>Project (Number/Name)</b> 0 <i>I Prior Years</i>										
aimed at reducing lead-time, reducing cost, and improving qu	for the DOD and the DLA to better support the warfighter. This uality of forgings critical to DOD weapon systems. The increase e dies (typically the longest lead time and most expensive item)	e in funding will help develop new technolog										
emulate most obsolete digital integrated circuits (ICs) in the F five years redesigning circuit card assemblies. Many of these Life Cycles (often only 18 months). IC Manufacturers subsect maintains weapons systems much longer than IC lifecycles, r with buying/carrying excess inventories acquired before come manager of 88% of the IC Federal Stock Class) must have the Battery Network (BATTNET): \$8.312M. This project was real improving the supply and reducing the cost of procured batter dynamic challenges for military logistics. BATTNET is a come	aligned to SFA Improving Industrial Base Manufacturing Proces eries used in fielded weapon systems such as communication ra munity of practice of battery supply chain members, engineering bridge technical solutions into higher MRLs for specific groups of	b) has estimated \$2.9 billion is spent every nce. Commercial ICs have short Product sources for their previous IC products. DoD and potential readiness issues associated mbly to mitigate the obsolete IC, DLA (as the ses. The BATTNET program is focused on adios and armored vehicles. Batteries exhib g support activities, researchers, and users.										
Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 D	efense Log	istics Agen	су					Date: Febr	uary 2018	
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Appropriation/Budget Activity 0400 / 7					<b>R-1 Progr</b> PE 070801		•	,		/ing Industri ring Proces	,	ly Material
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
17: Improving Industrial Base Manufacturing Processes (formerly Material Availability)	5.293	4.800	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	10.093
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### A. Mission Description and Budget Item Justification

The Material Availability (MA) Strategic Focus Area (SFA) are R&D efforts undertaken with DLA's industrial base to reduce material costs, reduce the length and variability of Production Lead-Times, assure the DLA managed products meet 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 strategic focus area includes within its scope the former Combat Rations Program, the Battery Program, the Castings and the Forgings programs.

This SFA is comprised of five roadmaps for Batteries, Subsistence Network, Castings, Forgings, and Additive Manufacturing.

The Battery network 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. The network conducts R&D initiatives to address sustainment gaps and bridge technical solutions into higher MRLs for specific groups of batteries. For FY2014, DLA received 139,163 orders for 2.85 million batteries at \$183M net value - compared to FY13 \$176M and FY12 \$216M. The Battery network 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 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 Subsistence Supply Chain consists of military subsistence, which includes combat rations, field feeding equipment, garrison feeding and market fresh products. The Subsistence Network (SUBNET) program is a manufacturing technology program and is the successor to the Combat Rations R&D program. SUBNET's community of practice will research and promote manufacturing improvements in the subsistence supply chain with the goals of maximizing capability and capacity to produce, and to encourage innovation and modernization needed to leverage the latest technologies. The desired outcomes of the current short-term projects Microwave Assisted Thermal Sterilization (MATS), MRE Alternate Chemical Laminate, Optimize Combat Ration Inspection Costs, and Combat Rations Shelf Life Temperature Monitoring Project include testing of low risk, high-impact technology and process improvements that will improve the quality of individual and group combat rations, reduce cost, and provide efficiencies, then transitioning these improvements to industrial base suppliers and government suppliers.

The Castings consortium objective is to develop new materials and technologies for the metalcasting industry to help DLA improve the supply of parts that contain castings. Weapon system spare parts managed by DLA that contain castings are responsible for a disproportionate share of DLA's backorders or unfilled orders (UFOs).

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logis	stics Agency	Date: February 2018
Appropriation/Budget Activity 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0708011S <i>I Industrial Preparedness</i>	<b>Project (Number/Name)</b> 17 I Improving Industrial Base Manufacturing Processes (formerly Material Availability)
Cast parts are ~2% of National Stock Numbered Class IX parts but mare castings. This program includes tasks to develop new capabilities capabilities will support the foundry industry, where the technologies will improve the metalcasting supply chains for the DOD and the DLA reducing lead-time, reducing cost, and improving quality of castings of The Forgings consortium objective is to develop new materials and the	es in the areas of inspection, materials, processes, mod will be tested and implemented in conjunction with the A to better support the warfighter. This is achieved thro critical to DOD weapon systems.	deling, and design. Once developed these industry associations. These advancements ough investments in projects aimed at
Weapon system spare parts managed by DLA that contain Forgings parts are ~2% of National Stock Numbered Class IX parts but repress forgings. This program includes tasks to develop new capabilities in capabilities will support the forging industry, where the technologies will improve the forging supply chains for the DOD and the DLA to be lead-time, reducing cost, and improving quality of forgings critical to I	are responsible for a disproportionate share of DLA's be sent ~5% of all backorders, and when only the oldest be the areas of inspection, materials, processes, modeline will be tested and implemented in conjunction with the etter support the warfighter. This is achieved through in	backorders or unfilled orders (UFOs). Forged ackorders are considered up to 10% are g, and design. Once developed these industry associations. These advancements
The Additive Manufacturing (AM) objective is to establish AM as an enneeds to exploit AM technology as a lead-time and inventory reduction		document the process for AM benefits. DLA
PE 0708011S: Industrial Preparedness	UNCLASSIFIED	Valuma 5 76

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 D	efense Log	istics Agen	су					Date: Febr	uary 2018	
Appropriation/Budget Activity 0400 / 7					-	<b>am Elemen</b> I1S / Industi	•	,			e Śupply So	urces
COST (\$ in Millions)	COST (\$ in Millions)Prior YearsFY 2017FY 2018Maintaining Viable Supply urces (formerly High Quality10.1888.5900.000	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost		
18: Maintaining Viable Supply Sources (formerly High Quality Sources)	10.188	8.590	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	18.778
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### A. Mission Description and Budget Item Justification

The High Quality Sources SFA are 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 former Material Acquisition Electronics program.

The Material Acquisition Electronics roadmap has four major thrusts in Digital Microcircuits: Advanced Schottky TTL, TTL Compatible CMOS, 512 Kilobit RAM/ROM and Mega Gate ASIC. The Roadmap also includes a new major thrust area: Linear Microcircuits. Over the past several years, obsolescence in this class of microcircuits has greatly increased and has become a significant concern. These are classes of microcircuits that are expected to become non-procurable in FY 17 and beyond. Without the technologies planned on the MAE Roadmap, DLA will not be able to support DoD's requirements for high quality spare parts for critical electronic systems and subsystems.

The Strategic Materials roadmap is a new thrust for the DLA Mantech program. It is designed to ensure that critical strategic materials are available from domestic sources and that process innovations are in place to efficiently process or recover strategic materials. Domestic capabilities can enhance national security and potentially reduce Defense Stockpile requirements.

Exhibit R-2A, RDT&E Project Ju	stification	PB 2019 D	Defense Log	istics Agen	су					Date: Febr	ruary 2018	
Appropriation/Budget Activity 0400 / 7					-	am Elemen I1S / Industi	•	,		/ing Technic n (formerly l	<b>ne)</b> cal and Logis Industry and	
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
19: Improving Technical and Logistics Information (formerly Industry and Customer Collaboration)	6.362	2.594	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.956
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### A. Mission Description and Budget Item Justification

The Improving Technical and Logistics Information Strategic Focus Area (SFA) projects improve and facilitate the communication of technical and logistics information among industry, DLA's military customers and DLA. This SFA includes Military Unique Sustainment Technology (MUST) and the Defense Logistics Information Research (DLIR) (P.E. 0603712S) within its scope. The movement of the DLIR related work from P.E. 0603712S to the DOD ManTech Program aligns the funding to the critical interface between DLA and industry and away from internal DLA operations.

The MUST focus addresses GAO Report 12-707 recommendations that DOD to establish a "knowledge-based approach" to collaborate on define and communicate of military unique requirements. DLA has the responsibility to communicate and manage 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 reduce the lead-time between Individual Item and Equipment (IIE) development and sustainment from years to months. The Program focuses on technologies that will transform the military IIE supply chain from an "electronic paper" (i.e. PDF/MS Word) based, manual environment into a knowledge based automated environment. The resulting approach will be a neutral platform that will seamlessly communicate military unique technical requirements throughout the end to end supply chain.

The DLIR Model Based Enterprise effort will develop capabilities to systematically accept engineering and design data from the Military Services, validate and store item technical data in 3D models. There are two classes of data that must be addressed: newly designed parts for systems still in development and legacy parts for systems that are in sustainment. The problem with newly designed parts is capturing the complete and accurate designs. The legacy parts do not have digital engineering models which recreating the design in contemporary engineering systems.

The Technical and Logistical Data Interoperability will pioneer methods to capture data from military Services, Original Equipment Manufacturers (OEMs), and suppliers to form a seamless thread of interoperable and linked data models.

Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 20 <sup>-</sup>	19 Defense	Logistics A	gency					Date: Febr	uary 2018	
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Developmen		ntion, Defen	se-Wide I E	BA 7:			<b>t (Number/</b> Disaster C	,				
COST (\$ in Millions)	ch, Development, Test & Evaluation, Defense-Wide I BA 7: ystems Development\$ in Millions)Prior YearsFY 2017FY 2018FY Ba Element18.2911.6901.770upport Activities12.4880.0000.000	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost		
Total Program Element	18.291	1.690	1.770	1.770	-	1.770	1.770	1.785	1.821	1.856	Continuing	Continuing
1: Logistics Support Activities (LSA)	12.488	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.488
03: Pacific Disaster Center	5.803	1.690	1.770	1.770	-	1.770	1.770	1.785	1.821	1.856	Continuing	Continuing

#### A. Mission Description and Budget Item Justification

The Pacific Disaster Center (PDC) has been in operation since February 1996. The 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, Technology, and Logistics) (OUSD(AT&L)) 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 hazard monitoring, early warning and decision support system, called RAPIDS, for the department.

B. Program Change Summary (\$ in Millions)	<u>FY 2017</u>	<u>FY 2018</u>	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	1.754	1.770	1.770	-	1.770
Current President's Budget	1.690	1.770	1.770	-	1.770
Total Adjustments	-0.064	0.000	0.000	-	0.000
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
<ul> <li>Reprogrammings</li> </ul>	-	-			
SBIR/STTR Transfer	-0.064	-			

#### **Change Summary Explanation**

FY2017, the Small Business Innovation Research and Small Technology Transfer Research tax amounted to \$0.064M.

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2019 E	Defense Log	istics Agen	су					Date: Febr	ruary 2018	
Appropriation/Budget Activity 0400 / 7					U U	<b>am Elemen</b> 12S / Pacific	•	,	Project (N 1 / Logistic		<b>ne)</b> Activities (LS	A)
COST (\$ in Millions) Prior Years FY 2017 FY 2018				FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
1: Logistics Support Activities (LSA)	12.488	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.488
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### A. Mission Description and Budget Item Justification

This program is reported in accordance with Title 10, United States Code, Section 119 (a)(1) in the Special Access Program Annual Report to Congress. The staff cognizance and oversight will transfer from the DLA to the Defense Information Systems Agency (DISA) effective October 1, 2014. The USD(P) will continue to be the Operational Sponsor and functional OSD Principal Staff Assistant (PSA) for the program.

Exhibit R-2A, RDT&E Project Ju	stification	PB 2019 D	efense Log	istics Agen	су					Date: Feb	ruary 2018	
Appropriation/Budget Activity 0400 / 7						am Element 2S / Pacific			Project (N 03 / Pacific		,	
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
03: Pacific Disaster Center	5.803	1.690	1.770	1.770	-	1.770	1.770	1.785	1.821	1.856	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
<u>A. Mission Description and Bud</u> The Pacific Disaster Center (PDC	•			(000							<b></b> /.	
a cooperative agreement with the authority and leader in science ar technologies, and has provided o RAPIDS, for the department since missions and exercises, and was sharing systems. "Expanded use "a primary Joint Staff objective" in	nd information perational se 2007. The recently se of RAPIDS	on technolo support for a system, co lected as or across the	gy applicati in (unclassi overing glob ne of the mo DoD at the	ons relating fied) integra oal hazard i ost effective Combatant	g to Humani ated multi-h s frequently s systems ir	tarian Assis azard hazar used by CC a position p	tance and I d monitorin DCOMS, pa paper by the	Disaster Re g, early war Irticularly P/ e departme	lief (HA/DR ning and de ACOM and nt, reviewing	). It has de ecision sup SOUTHCO g all unclas	veloped inno port system, M, for HA/D sified inform	ovative called R ation
B. Accomplishments/Planned P	rograms (\$	in Millions	<u>5)</u>						FY	2017 F	Y 2018	FY 2019
Title: Pacific Disaster Center (PD	C)									1.690	1.770	1.770
<b>Description:</b> This program is reported and a program Annual Report to Congress Assistant (PSA) for the program.	ess. The U	SD(P) will c	ontinue to b	e the Oper	ational Spo	nsor and fur	ictional OS					
The PDC has been in operation s Hawaii (UH) under a cooperative manpower, and budget resources Logistics) (OUSD(AT&L)) and the	agreement transferred	with the De to the Offic	partment of e of the Un	Defense. der Secreta	The Pacific ary of Defer	Disaster Ce	nter (PDC)	function,				
The USD(P) will continue to be the The PDC is a world-recognized at assistance and disaster relief (HA awareness, and civil-military comp and Vulnerability Assessments he	uthority and /DR). PDC' munications	leader in so s application for humani	cience and ns and infor tarian missi	information mation pro- ions worldw	technology ducts enhar vide, while it	applications	s relating to dness, situa evel socio-e	humanitari ational conomic Ri	sk			
The PDC Program Office's (USD( stewardship of governmental func CrM, HA/DR, Theater Security Co	ls provided	in Defense	Departmen	t appropriat	tions for Do	D missions a	associated	with DoD	ce			

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense	Logistics Agency	Date: F	ebruary 2018	3
Appropriation/Budget Activity 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0708012S / Pacific Disaster Centers	Project (Number/ 03 / Pacific Disaste		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
develops and provides policy, oversight and guidance, and joint priorities with the UH and PDC. The PDC Program Office also se especially in the area of gaining Federal agency support and res	erves as a support element of the Hawaii-based organizatio	n		
<b>FY 2018 Plans:</b> Risk and Vulnerability Assessment • Explore trend analysis based on existing Global RVA data acc • Improve analytical reporting/visualization and automated asses • Incorporate country-report analytical capabilities into the above	ssment capabilities using Global RVA data			
Data • Explore feasibility of hosting classified data in RAPIDS, should • Continue development of data sources for hazards and related				
Modeling • Integrate alerting capabilities and hazard impact modeling • Continue enhancing application of hazard models to estimate i	initial needs for HA/DR support missions			
Application <ul> <li>Improve performance of the system and enhance user experie</li> <li>Improve mobile device-related features (e.g. battery usage, etc</li> <li>Continue evaluating new and innovative technologies for enha</li> </ul>	c.)			
<b>FY 2019 Plans:</b> Risk and Vulnerability Assessment • Collaborate with regional Combatant Commands (e.g., SOUTH data into RAPIDS • Improve sub-national analytical reporting/visualization and auto		RVA		
Data • Explore new technologies for handling "big data" • Improve analytical capabilities using "big data", including use o • Continue development of data sources for hazards and related				
Modeling				

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Age	ncy	Date: F	ebruary 2018	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/	Name)	
0400 / 7	PE 0708012S / Pacific Disaster Centers	03 I Pacific Disast	er Center	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
• Integrate Global Exposure Model for high-resolution "impact and exposure" a	nalytical reporting			
Continue enhancing application of hazard models to estimate initial needs for	r HA/DR support missions			
Application				
• Expand use and visualization of "big data", supporting higher-resolution base	line inventories			
• Improve cross-device user experience (e.g., desktop, mobile tablets, smart p	hones, wearables, etc.)			
<ul> <li>Integrate mass (alert) notification functions</li> </ul>				
Continue evaluating new and innovative technologies for enhancing user exp	perience (for RAPIDS)			
FY 2018 to FY 2019 Increase/Decrease Statement:				
No significant change.				
	Accomplishments/Planned Programs Sub	totals 1.690	1.770	1.770

#### 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/EMOPS/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 communicates. Projects obtained and funded from this customer base serve as a means to determine PDC product and services relevancy.

#### E. Performance Metrics

Projects objectives and tasks are designed to build upon the previous year's successes and are consistent with the framework and direction provided by the Strategies 2016-2020 document (updated Nov 2016). At the beginning of each calendar year, an Annual Plan is in-place to guide the program and enable a framework for performance feedback to the DoD PDC Program Manager, the PDC Executive Director, WHS CA Contracting Office, and the UH. At the end of each calendar year, these stakeholders meet to review the past year performance and finalize a new Annual Plan for the next calendar year. This plan details a set of specific objectives to further capabilities and capacities supporting the PDC's mission and increasing operational value to the stakeholders.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2019 Defe	nse Logi	istics Age	псу						Date:	February	2018	
Appropriation/Budg 0400 / 7	et Activity	,					-	•	l <b>umber/N</b> a saster Cer		-	<b>(Number</b> cific Disas		r	
Test and Evaluation	(\$ in Milli	ons)		FY	2017	FY 2	2018		2019 ase	FY 2 O(	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	_ocation Years		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 Systems : Honolula, 5.8		5.803	1.690	Dec 2016	1.770	Mar 2018	1.770	Mar 2019	0.000		1.770	Continuing	Continuing	-
		Subtotal	5.803	1.690		1.770		1.770		0.000		1.770	Continuing	Continuing	N/A
			Prior Years	FY	2017	FY 2	2018		2019 ise	FY 2 O(	2019 CO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	5.803	1.690		1.770		1.770		0.000		1.770	Continuing	Continuing	N/A

Remarks

<pre>khibit R-4, RDT&amp;E Schedule Profile: PB 2 ppropriation/Budget Activity</pre>	019 Defe	nse	e Lo	ogis	stics	Ag	en	су		R-1	Pr	rogr	ram	n El	em	ent	t (N	um	nber	/Na	me	)		Proj	ect				Feb / <mark>Nar</mark>		y 20	)18		
00/7						-						080												)3 Í							er			
		F	Y 2	01(	0		F	Y	201	1		F	Y	201	2			FY	201	3			FY	201	4		F	Y	015	)		FY	201	6
	1		2	3	4	1		2	3	4	4	1	2	3	l	4	1	2	3		4	1	2	3	4	1		2	3	4	1	2	3	4
PDC																																		
PDC																																		
	_										_										_					_								
		F	Y 2	017	1		F	Y	201	8		F	FY	201	9			FY	207	0			FY	202	1		F	YZ	027			FY	202	3
	1		2	3	4	1		2	3	4	4	1	2	3	4	4	1	2	3	1	4	1	2	3	4	1		2	3	4	1	2	3	l
PDC																																		
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Exhibit R-2, RDT&E Budget Iten	n Justificat	<b>ion:</b> PB 20′	19 Defense	Logistics A	gency					Date: Febr	uary 2018			
0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development				<b>R-1 Program Element (Number/Name)</b> PE 0708047S <i>I Defense Property Accountability System (DPAS)</i>										
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost		
Total Program Element	0.000	2.075	2.924	1.805	-	1.805	3.679	3.500	3.104	3.162	Continuing	Continuing		
ABC: DPAS	0.000	2.075	2.924	1.805	-	1.805	3.679	3.500	3.104	3.162	Continuing	Continuing		

#### A. Mission Description and Budget Item Justification

The Defense Property Accountability System (DPAS) provides the Department an 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, it is able to provide the Department an enterprise solution for asset management.

B. Program Change Summary (\$ in Millions)	<u>FY 2017</u>	<u>FY 2018</u>	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	2.154	2.924	2.972	-	2.972
Current President's Budget	2.075	2.924	1.805	-	1.805
Total Adjustments	-0.079	0.000	-1.167	-	-1.167
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
<ul> <li>Reprogrammings</li> </ul>	-	-			
SBIR/STTR Transfer	-0.079	-			
<ul> <li>Inflation Adjustment</li> </ul>	-	-	-0.025	-	-0.025
Program Rephase	-	-	-1.142	-	-1.142

#### **Change Summary Explanation**

FY2017, the Small Business Innovation Research and Small Technology Transfer Research tax amounted to \$0.079M.

Inflation adjustments for Non-Pay/Non-Fuel Pay purchases and Civilian Pay decreased the program baseline in FY2019. The FY2019 funding request was reduced by \$-1.142 million to account for the availability of prior year execution balances.

stification:	PB 2019 D	efense Log	istics Agen	ю					Date: Feb	oruary 2018	
				PE 070804	TS I Defens	se Property				me)	
Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
0.000	2.075	2.924	1.805	-	1.805	3.679	3.500	3.104	3.162	2 Continuing	Continuing
-	-	-	-	-	-	-	-	-	-		
rovide solut gacy functi	ions for pro onality into	cess gaps a the overall o	as they are	discovered				PAS allow t	he DoD to :	sunset legac FY 2018	
y. ject plannin CIP Projects al growth in g capability te a Work ( s, dependin hanges the levelop sep quirements a port for the DPAS will v be closed. Department gs	g to include ; provide in in DPAS is Drder proce g on which fields displ arate proce and develop Financial A work with ea At this time so there ar	e personnel terfaces to t rather gene ss that is m solution wil ayed and da sses for the o the capab audit. The E ach Service e it is difficul	and equipn the Air Force manageme eric and cau ore stream I result in le ata values i e asset type ilities in FY Department or Agency It to specific	nent resourd ce logistics s nt and Work uses inefficie lined and ta ess mainten in drop down es. DPAS w 19. will have co to determin cally state w	ces; enhanc systems. Corder/Tick encies for be rgeted to the ance cost in n lists depen vill conduct to completed the e the areas what these ca	e interface et Manager oth Vehicle ese asset ty i future year nding on the user meeting e first full au that DPAS apabilities n	with DAI to ment. The Managers /pes. This rs. The first e asset type gs in FY18 idit and hav can increas nay be but I	t to e se DPAS			
crease Sta	tement:										
	Prior Years 0.000 - get Item Ju untability ar rovide solut egacy function rograms (\$ ents to the way. iect plannin CIP Projects al growth in g capability te a Work (0 s, dependin hanges the levelop sep quirements a port for the DPAS will way be closed. Department gs	Prior Years       FY 2017         0.000       2.075         -       -         get Item Justification untability and manager rovide solutions for pro- gacy functionality into         rograms (\$ in Millions         ents to the warehouse r y.         get planning to include CIP Projects; provide in al growth in the areas g capability in DPAS is te a Work Order proce s, depending on which hanges the fields displ levelop separate proce quirements and develop         port for the Financial A DPAS will work with ea be closed. At this time Department so there ar	Prior Years         FY 2017         FY 2018           0.000         2.075         2.924           -         -         -           get Item Justification untability and management function rovide solutions for process gaps a egacy functionality into the overall of rograms (\$ in Millions)           ents to the warehouse management y.           gect planning to include personnel CIP Projects; provide interfaces to the geapability in DPAS is rather generate te a Work Order process that is m s, depending on which solution will hanges the fields displayed and de levelop separate processes for the guirements and develop the capab port for the Financial Audit. The E DPAS will work with each Service be closed. At this time it is difficu Department so there are sure to be gs	Prior Years       FY 2017       FY 2018       Base         0.000       2.075       2.924       1.805         -       -       -       -         get Item Justification untability and management functionality to the rovide solutions for process gaps as they are agacy functionality into the overall operations.         rograms (\$ in Millions)         ants to the warehouse management functions by.         get planning to include personnel and equipre CIP Projects; provide interfaces to the Air Ford al growth in the areas of IT asset management g capability in DPAS is rather generic and cat te a Work Order process that is more stream s, depending on which solution will result in le hanges the fields displayed and data values if levelop separate processes for the asset type quirements and develop the capabilities in FY port for the Financial Audit. The Department DPAS will work with each Service or Agency be closed. At this time it is difficult to specific Department so there are sure to be areas that gs	PE 070804         Accountab         Years       FY 2017       FY 2018       FY 2019       FY 2019         0.000       2.075       2.924       1.805       -         -       -       -       -       -       -         get Item Justification       untability and management functionality to the Departme rovide solutions for process gaps as they are discovered agacy functionality into the overall operations.       -       -       -         rograms (\$ in Millions)       -       -       -       -       -       -         Ints to the warehouse management functions; incorporately.       -       -       -       -       -         ints to the warehouse management functions; incorporately.       -       -       -       -       -         epst planning to include personnel and equipment resource y.       -       -       -       -       -         ints to the warehouse management and Work g capability in DPAS is rather generic and causes inefficient to a Work Order process that is more streamlined and ta s, depending on which solution will result in less mainten hanges the fields displayed and data values in drop dow levelop separate processes for the asset types. DPAS will work with each Service or Agency to determin be closed. At this time it is difficult to specifically state w DPAS will work with each Service or Agency to determin be closed. At this time it is difficult to specifically state w Department s	Prior Years         FY 2017         FY 2018         FY 2019         FY 2019         FY 2019         FY 2019         Total           0.000         2.075         2.924         1.805         -         1.805           -         -         -         -         -         -           get Item Justification         untability and management functionality to the Department. The bud rovide solutions for process gaps as they are discovered. The greate regacy functionality into the overall operations.           rograms (\$ in Millions)         -         <	Prior         FY 2017         FY 2018         Base         OCO         FY 2019         FY 2020         0.000         2.075         2.924         1.805         3.679         -         -         -         -         -         -         -         -         -         -         -         -         -         2010         3.679         2019         2019         2019         2019         2019         2019         2019	R-1 Program Element (Number/Name) PE 0708047S / Defense Property Accountability System (DPAS)         Prior Years       FY 2017       FY 2018       FY 2019 Base       FY 2019       FY 2019       FY 2020       FY 2021         0.000       2.075       2.924       1.805       -       1.805       3.679       3.500         -       -       -       -       -       -       -       -       -         get Item Justification untability and management functionality to the Department. The budgeted projects will provorvide solutions for process gaps as they are discovered. The greater enhancements to DF agacy functionality into the overall operations.         rograms (\$ in Millions)       millions)         Inst to the warehouse management functions; incorporate vehicle telematics; improve the d y.       Years of IT asset management and Work Order/Ticket Management. The g capability in DPAS is rather generic and causes inefficiencies for both Vehicle Managers te a Work Order process that is more streamlined and targeted to these asset types. This s, depending on which solution will result in less maintenance cost in future years. The first hanges the fields displayed and data values in drop down lists depending on the asset type levelop separate processes for the asset types. DPAS will conduct user meetings in FY18 juirements and develop the capabilities in FY19.         port for the Financial Audit. The Department will have completed the first full audit and hav DPAS will work with each Service or Agency to determine the areas that DPAS can increas be closed. At this time it is difficult to specifically st	R-1 Program Element (Number/Name) PE 07080475 / Defense Property Accountability System (DPAS)       Project (N ABC / DPA         Prior Years       FY 2017       FY 2018       FY 2019       FY 2019       FY 2012       FY 2021       FY 2022       FY 2022         0.000       2.075       2.924       1.805       -       1.805       3.679       3.500       3.104         -       -       -       -       -       -       -       -       -         get Item Justification       untability and management functionality to the Department. The budgeted projects will provide enhance rovide solutions for process gaps as they are discovered. The greater enhancements to DPAS allow the gacy functionality into the overall operations.       FY         rograms (\$ in Millions)       FY         iect planning to include personnel and equipment resources; enhance interface with DAI to 3.104       FY         ig cowth in the areas of IT asset management and Work Order/Ticket Management. The grapability in DPAS is rather generic and causes inefficiencies for both Vehicle Managers te a Work Order process that is more streamlined and targeted to these asset types. This s, depending on which solution will result in less maintenance cost in future years. The first hanages the fields displayed and data values in ordp down lists depending on the asset type. Levelop separate processes for the asset types. DPAS will conduct user meetings in FY18 to 10.107 separate processes for the asset types. DPAS will conduct user meetings in FY18 to 10.107 separate and develop the capabilities in F	R-1 Program Element (Number/Name) PE 0708047S / Defense Property Accountability System (DPAS)       Project (Number/Na ABC / DPAS         Prior Years       FY 2017       FY 2018       FY 2019       FY 2019       FY 2020       FY 2021       FY 2022       FY 2023         0.000       2.075       2.924       1.805       -       1.805       3.679       3.500       3.104       3.162         -       -       -       -       -       -       -       -       -       -         get Item Justification       untability and management functionality to the Department. The budgeted projects will provide enhancements to rovide solutions for process gaps as they are discovered. The greater enhancements to DPAS allow the Dob to gazy functionality into the overall operations.       FY 2017       2.075         rograms (\$ in Millions)       FY 2017       2.075       2.075       2.075       2.075         Its to the warehouse management functions; incorporate vehicle telematics; improve the data y.       FY 2017       2.075         iect planning to include personnel and equipment resources; enhance interface with DAI to JP Projects; provide interfaces to the Air Force logistics systems.       This s, depending on which solution will result in less maintenance cost in future years. The first hangeers that is more streamlined and targeted to these asset types.       FY 18 to puipeelos process for the asset types. DPAS will conduct user meetings in FY18 to puipeenoties on Agency to dete	R-1 Program Element (Number/Name) PE 0708047S / Defense Property Accountability System (DPAS)       Project (Number/Name) ABC / DPAS         Prior Years       FY 2017       FY 2018       FY 2019       FY 2019       FY 2019       FY 2019       FY 2020       FY 2021       FY 2022       FY 2023       Cost To Complete         0.000       2.075       2.924       1.805       -       1.805       3.679       3.500       3.104       3.162       Continuing         get Item Justification untability and management functionality to the Department. The budgeted projects will provide enhancements to the existing rovide solutions for process gaps as they are discovered. The greater enhancements to DPAS allow the DoD to sunset legac gacy functionality into the overall operations.       FY 2017       FY 2018       2.075       2.924         is to the warehouse management functions; incorporate vehicle telematics; improve the data y.       FY 2017       FY 2018       2.075       2.924         al growth in the areas of IT asset management and Work Order/Ticket Management. The g capability in DPAS is rather generic and causes inefficiencies for both Vehicle Managers te a Work Order process that is more streamlined and targeted to these asset types. Is depending on which solution will result in less maintenance cost in future years. The first hanges the fields displayed and data values in drop down lists depending on the asset type. Ievelop separate processes for the asset types. DPAS will conduct user meetings in FY18 to jurrements and develop the capabilitities in FY19.       port for the Financial A

Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Lo	ogistics Agency		Date: F	ebruary 2018	
Appropriation/Budget Activity 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0708047S <i>I Defense Property</i> <i>Accountability System (DPAS)</i>	Projec ABC / I	t (Number/N DPAS	lame)	
B. Accomplishments/Planned Programs (\$ in Millions)					
The FY 2019 funding request was reduced by \$-1.142 million to ac	ccount for the availability of prior year execution balances.				
	Accomplishments/Planned Programs Sub	ototals	2.075	2.924	1.80
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A E. Performance Metrics DPAS will ensure the obligations and expenditures are in line with	n OSD (Comptroller) guidance, as currently issued.				

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2019 Defe	nse Logi	istics Age	ncy						Date:	February	2018	
Appropriation/Budg 0400 / 7	et Activity	1				PE 070	o <b>gram Ele</b> 8047S I E tability Sy	Defense F	, ,	ame)	Project ABC / L	(Numbe DPAS	r/Name)		
Product Developme	nt (\$ in M	illions)		FY	2017	FY 2	2018		2019 ase		2019 CO	FY 2019 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		Target Value of Contract
DPAS Version 4 Development	C/CPIF	Contractor TBD : TBD	0.000	2.075	Mar 2017	2.924	Jun 2018	1.805	Jun 2019	0.000		1.805	Continuing	Continuing	-
		Subtotal	0.000	2.075		2.924		1.805		0.000		1.805	Continuing	Continuing	N/A
			Prior Years	FY	2017	FY 2	2018		2019 ase		2019 CO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	2.075		2.924		1.805		0.000		1.805	Continuing	Continuing	N/A

**Remarks** 

xhibit R-4, RDT&E Schedule Profile: PB 2019 Defense Logistics Agency ppropriation/Budget Activity 400 / 7									су									Date: February 2018 roject (Number/Name) BC / DPAS				
Fiscal Year FY 2015		FY 2016					FY 2017			FY 2018					FY 2019							
Project Task	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																						

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