Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy											Date: February 2018	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 4: *Advanced Component Development & Prototypes (ACD&P)*					R-1 Program Element (Number/Name) PE 0604320M *I Rapid Technology Capability Prototype*							
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	7.055	7.107	-	7.107	7.271	7.423	7.576	7.734	Continuing	Continuing
0386: *Rapid Prototype Development, Marine Corps*	0.000	0.000	7.055	7.107	-	7.107	7.271	7.423	7.576	7.734	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Commandant of the Marine Corps (CMC) directed the formation of the Marine Corps Rapid Capabilities Office (MCRCO) to accelerate the identification, development and assessment of capabilities that appear to offer significant military utility. The MCRCO will seek emergent and disruptive technology to rapidly develop and deliver operational prototypes that increase Operating Forces' survivability and lethality, and that will inform requirement development and investment planning. Prototypes to be assessed will be at a Technology Readiness Level 7 or higher and can be either non developmental government off the shelf, non-developmental commercial off the shelf, or developmental items.

FY18 efforts include, but are not limited to, product development and operational forces assessment for Tactical Electro-Magnetic Signature Operations and Support (TEMSOS), Long Range Precision Fires, and Unmanned Swarm Systems. TEMSOS will provide enhanced uninterruptable intra-unit communications, alternate precision navigation, friendly force electromagnetic signature monitoring, enhanced situational awareness, and tactical advantage through electronic attack. Unmanned Swarm Systems provide small armored aerial survey, search, and attack capabilities fused with artificial intelligence to enhance situational awareness and decision making. Long Range Precision Fires will provide long-range guided anti-armor precision fires with both on-board and meshed data links for enhanced targeting accuracy for this small unmanned aircraft munition. These three capabilities have been identified as key immediate Operational Force survivability and lethality enablers to countercurrent enemy capabilities.

FY19 efforts include Autonomous Vehicles, Tactical Information Warfare, and Urban Engagement Systems.

Autonomous Vehicles: This effort will identify, prototype, and assess the use in a variety of combat and supporting use employments, vehicles capable of sensing their environment, while navigating and functioning independently without human conduction to take evasive or defensive action and avoid detection, tracking, targeting or attack, provide an alternative reconnoiter capability in non-permissive settings for the purpose of mapping and patrolling for the purpose of intensifying combat power and reducing risk to the force.

Tactical Information Warfare: This effort will identify, prototype, and assess various informations systems that provide small unit ability to undermine local opposing force information quality, while ensuring friendly forces a timely, accurate, superior capability to automatically correlate relevant active and passive information from organic and non-organic sensors that will increase their combat effectiveness in this emerging warfighting discipline.

Urban Engagement Systems: This effort will identify, prototype and assess small unit systems to provide them enhanced situational awareness to locate and track opposing forces in tall buildings, narrow alleys, sewage tunnels and subway systems in order to minimize friendly force exposure, reduce potential collateral damage, and offer increased force protection measures by means of amplified lethality, improved discrimination ability, and enhances survivability.

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy	Date: February 2018
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 Program Element (Number/Name)** PE 0604320M *I Rapid Technology Capability Prototype*

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	7.055	7.196	-	7.196
Current President's Budget	0.000	7.055	7.107	-	7.107
Total Adjustments	0.000	0.000	-0.089	-	-0.089
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	-0.089	-	-0.089

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604320M / *Rapid Technology Capability Prototype*	Project (Number/Name) 0386 / *Rapid Prototype Development, Marine Corps*	

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
0386: *Rapid Prototype Development, Marine Corps*	0.000	0.000	7.055	7.107	-	7.107	7.271	7.423	7.576	7.734	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Commandant of the Marine Corps (CMC) directed the formation of the Marine Corps Rapid Capabilities Office (MCRCO) to accelerate the identification, development and assessment of capabilities that appear to offer significant military utility. The MCRCO will seek emergent and disruptive technology to rapidly develop and deliver operational prototypes that increase Operating Forces' survivability and lethality, and that will inform requirement development and investment planning. Prototypes to be assessed will be at a Technology Readiness Level 7 or higher and can be either non developmental government off the shelf, non-developmental commercial off the shelf, or developmental items.

MCRCO is not an acquisition program. MCRCO implements one-time buys of various capabilities for operational assessments and does not sustain nor provide enduring support beyond the operational assessment period. If a capability requires sustainment and enduring support it will transition to the traditional acquisition process.

FY19 efforts include Autonomous Vehicles, Tactical Information Warfare, and Urban Engagement Systems.

Autonomous Vehicles: effort will identify, prototype, and assess the use in a variety of combat and supporting use employments, vehicles capable of sensing their environment, while navigating and functioning independently without human conduction to take evasive or defensive action and avoid detection, tracking, targeting or attack, provide an alternative reconnoiter capability in non-permissive settings for the purpose of mapping and patrolling for the purpose of intensifying combat power and reducing risk to the force.

Tactical Information Warfare: effort will identify, prototype, and assess various information systems that provide small unit ability to undermine local opposing force information quality, while ensuring friendly forces a timely, accurate, superior capability to automatically correlate relevant active and passive information from organic and non-organic sensors that will increase their combat effectiveness in this emerging war-fighting discipline.

Urban Engagement Systems: effort will identify, prototype and assess small unit systems to provide them enhanced situational awareness to locate and track opposing forces in tall buildings, narrow alleys, sewage tunnels and subway systems in order to minimize friendly force exposure, reduce potential collateral damage, and offer increased force protection measures by means of amplified lethality, improved discrimination ability, and enhances survivability.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Product Development	0.000	5.630	5.878	0.000	5.878

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604320M / *Rapid Technology Capability Prototype*	**Project (Number/Name)** 0386 / *Rapid Prototype Development, Marine Corps*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Articles:	-	-	-	-	-
FY 2018 Plans: - Initiate Certifications/Studies/Reports and Prototype Purchase/Development/Integration of MCRCO portfolio: - Initiate product development of Tactical Electro-Magnetic Spectrum capabilities. - Initiate product development of unmanned aerial, surface, and underwater vehicles (UAV, USV, and UUV) swarm capability. - Initiate product development of a Long Range Precision Fires capability.					
FY 2019 Base Plans: FY19 Product Development Autonomous Vehicles: Initiate efforts to identify, prototype, and assess the use in a variety of combat and supporting use employments, vehicles capable of sensing their environment, while navigating and functioning independently without human conduction to take evasive or defensive action and avoid detection, tracking, targeting or attack, provide an alternative reconnoiter capability in non-permissive settings for the purpose of mapping and patrolling for the purpose of intensifying combat power and reducing risk to the force. FY19 Product Development Tactical Information Warfare: Initiate efforts to identify, prototype, and assess various information systems that provide small unit ability to undermine local opposing force information quality, while ensuring friendly forces a timely, accurate, superior capability to automatically correlate relevant active and passive information from organic and non-organic sensors that will increase their combat effectiveness in this emerging war-fighting discipline. FY19 Product Development Urban Engagement Systems: Initiate efforts to identify, prototype and assess small unit systems to provide them enhanced situational awareness to locate and track opposing forces in tall buildings, narrow alleys, sewage tunnels and subway systems in order to minimize friendly force exposure, reduce potential collateral damage, and offer increased force protection measures by means of amplified lethality, improved discrimination ability, and enhances survivability.					
FY 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement:					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604320M / *Rapid Technology Capability Prototype*	**Project (Number/Name)** 0386 / *Rapid Prototype Development, Marine Corps*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Net increase of $0.248M reflects a slightly higher product development emphasis from FY18 to FY19 within Rapid Prototype Development efforts.					
Title: Support	0.000	1.050	0.566	0.000	0.566
Articles:	-	-	-	-	-
FY 2018 Plans: - Initiate Operational Force Assessments of MCRCO portfolio: - Initiate support of Tactical Electro-Magnetic Spectrum capabilities. - Initiate support of unmanned aerial, surface, and underwater vehicles (UAV, USV, and UUV) swarm capability. - Initiate support development and operational assessment of a Long Range Precision Fires capability. ***FY 2019 Base Plans:*** FY19 Initiate support efforts to include development of a innovation portal and other data collection efforts. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** The decrease of $0.484M reflects a reduction in overall Rapid Prototype Development support costs from FY18 to FY19.					
Title: Management	0.000	0.375	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2018 Plans: - Initiate Management Services of the new-start MCRCO: Engineering Analysis and program office support ***FY 2019 Base Plans:*** N/A ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** The decrease of $0.375M reflects a reduction in overall Rapid Prototype Development management costs from FY18 to FY19.					
Title: Test & Evaluation	0.000	0.000	0.663	0.000	0.663

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604320M / *Rapid Technology Capability Prototype*	**Project (Number/Name)** 0386 / *Rapid Prototype Development, Marine Corps*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Articles:	-	-	-	-	-
FY 2018 Plans: N/A ***FY 2019 Base Plans:*** FY19 Autonomous Vehicles: Initiate efforts to test and evaluate prototypes to assess their use in a variety of combat and supporting use employments. Vehicles tested will be capable of sensing their environment, while navigating and functioning independently without human conduction, taking evasive or defensive action, avoiding detection, tracking, targeting, attacking, provide an alternative reconnoiter capability in non-permissive settings for the purpose of mapping and patrolling for the purpose of intensifying combat power. The purpose of this effort is to reduce risk to the force. FY19 Operations Forces (OPFOR) Assessment Information Warfare: Initiate efforts to test and evaluate prototypes to assess various information systems that provide small unit ability to undermine local opposing force information quality, while ensuring friendly forces a timely, accurate, superior capability to automatically correlate relevant active and passive information from organic and non-organic sensors. FY19 Operations Forces (OPFOR) Assessment Urban Engagement Systems: Initiate efforts to test and evaluate prototypes to assess a state of the art urban range with appropriate buildings and streets that properly reflect an urban environment. Systems must locate and track opposing forces in tall buildings, narrow alleys, sewage tunnels and subway systems in order to minimize friendly force exposure, reduce potential collateral damage, and offer increased force protection. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** The increase of $0.663M from FY18 to FY19 reflects Test and Evaluation costs in support of FY19 Rapid Prototype Development efforts.					
Accomplishments/Planned Programs Subtotals	0.000	7.055	7.107	0.000	7.107

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604320M / *Rapid Technology Capability Prototype*	**Project (Number/Name)** 0386 / *Rapid Prototype Development, Marine Corps*

C. Other Program Funding Summary ($ in Millions)

Remarks

D. Acquisition Strategy

The MCRCO Process consists of three phases, Identify, Assess, and Inform, where each have unique function support of the mission. All MCRCO projects will align to this phased approach. In the Identify Phase the MCRCO undertakes a continuous process of investigation and compiling of technologies, concepts, and prototypes for various capability areas. Activities in this phase include but are not limited to research, war gaming/lectures/and external experiment attendance, industry and FFRDC engagements, Innovation Portal Challenges and Forums, gap identification, and emerging technology analysis. This is also where the MCRCO portfolio of projects are determined and approved for execution.

In the Assess Phase the operational assessments are performed by the MCRCO. These assessments of capability prototypes are categorized by complexity of effort and the perceived time it will take to conduct the assessment. The Capability Assessment Categories (CAC) are:

CAC 1 - Non Developmental Capability Prototype - Plug and Play (1-90 days)

CAC 2 - Integration Capability Prototype -Reconfigure and Play (91-180 days)

CAC 3 - Developmental Capability Prototype - Develop and Play (181-360 days)

The assess phase has three utility focuses that prototypes must demonstrate prior to being assessed: Military Utility, Enabling Competition, and Lifecycle Affordability.

The Inform Phase not only provides the results of the assessment event, but it also tracks the performance of the acquisition process. The goal is to deliver the capability rapidly to support warfighter requirements . It focuses its efforts on measuring the time it takes for key acquisition events to occur. These events include but are not limited to requirements transition, contract award, production, test, and fielding. Other Measure of Effectiveness will focus on costs and rework associated with acquisition process.

E. Performance Metrics

There will be 33% and 66% assessment reviews, where assessments will either continue forward to completion or project ended. All reviews will be documented in the Capability Assessment Report.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604320M / *Rapid Technology Capability Prototype*	**Project (Number/Name)** 0386 / *Rapid Prototype Development, Marine Corps*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Certifications, Studies, Reports_Tactical EM	Various	Not Specified : Not Specified	0.000	0.000		0.500	Nov 2017	0.000		-		0.000	Continuing	Continuing	Continuing
Certifications, Studies, Reports_Swarm	Various	Not Specified : Not Specified	0.000	0.000		0.500	Nov 2017	0.000		-		0.000	0.000	0.500	-
Certifications, Studies, Reports_Fires	Various	Not Specified : Not Specified	0.000	0.000		0.130	Jan 2018	0.000		-		0.000	Continuing	Continuing	Continuing
Prototype Purchase, Development, and Integration_Tactical EM	Various	Not Specified : Not Specified	0.000	0.000		1.750	Nov 2017	0.000		-		0.000	Continuing	Continuing	Continuing
Prototype Purchase, Development, and Integration_Swarm	Various	Not Specified : Not Specified	0.000	0.000		1.750	Nov 2017	0.000		-		0.000	0.000	1.750	-
Prototype Purchase, Development, and Integration_Fires	Various	Not Specified : Not Specified	0.000	0.000		1.000	Jan 2018	0.000		-		0.000	Continuing	Continuing	Continuing
Autonomous Vehicles Development	TBD	NSWC : Panama City, FL	0.000	0.000		0.000		0.250	Dec 2018	-		0.250	0.000	0.250	-
Information Warfare Development	TBD	NSWC : Crane, IN	0.000	0.000		0.000		0.250	Dec 2018	-		0.250	0.000	0.250	-
Urban Engagement Systems Development	TBD	NSWC : Corona, CA	0.000	0.000		0.000		0.130	Dec 2018	-		0.130	0.000	0.130	-
Autonomous Vehicle Contract Award	TBD	MCSC : Quantico, VA	0.000	0.000		0.000		2.248	Feb 2019	-		2.248	0.000	2.248	-
Informaion Warfare Contract Award	TBD	MCSC : Quantico, VA	0.000	0.000		0.000		2.000	Feb 2019	-		2.000	0.000	2.000	-
Urban Engagement Systems Contract Award	TBD	MCSC : Quantico, VA	0.000	0.000		0.000		1.000	Feb 2019	-		1.000	0.000	1.000	-
		Subtotal	0.000	0.000		5.630		5.878		-		5.878	Continuing	Continuing	N/A

Remarks

FY19 Product Development Autonomous Vehicles: effort will identify, prototype, and assess the use in a variety of combat and supporting use employments, vehicles capable of sensing their environment, while navigating and functioning independently without human conduction to take evasive or defensive action and avoid detection, tracking, targeting

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604320M / *Rapid Technology Capability Prototype*	**Project (Number/Name)** 0386 / *Rapid Prototype Development, Marine Corps*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract

or attack, provide an alternative reconnoiter capability in non-permissive settings for the purpose of mapping and patrolling for the purpose of intensifying combat power and reducing risk to the force.

FY19 Product Development Tactical Information Warfare: effort will identify, prototype, and assess various informations systems that provide small unit ability to undermine local opposing force information quality, while ensuring friendly forces a timely, accurate, superior capability to automatically correlate relevant active and passive information from organic and non-organic sensors that will increase their combat effectiveness in this emerging warfighting discipline.

FY19 Product Development Urban Engagement Systems; efforts will identify, prototype and assess small unit systems to provide them enhanced situational awareness to locate and track opposing forces in tall buildings, narrow alleys, sewage tunnels and subway systems in order to minimize friendly force exposure, reduce potential collateral damage, and offer increased force protection measures by means of amplified lethality, improved discrimination ability, and enhances survivability.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Tactical EM	Various	Not Specified : Not Specified	0.000	0.000		0.425	Jan 2018	0.000		-		0.000	Continuing	Continuing	Continuing
Swarm	Various	Not Specified : Not Specified	0.000	0.000		0.425	Jan 2018	0.000		-		0.000	0.000	0.425	-
Fires	Various	Not Specified : Not Specified	0.000	0.000		0.200	Apr 2018	0.000		-		0.000	Continuing	Continuing	Continuing
Engineering Analysis and program office support	C/FFP	MCSC : Quantico, VA	0.000	0.000		0.000		0.566	Mar 2019	-		0.566	0.000	0.566	-
		Subtotal	0.000	0.000		1.050		0.566		-		0.566	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Autonomous Vehicles OPFOR Assessment	TBD	Yuma Proving Grounds : Yuma, AZ	0.000	0.000		0.000		0.250	Mar 2019	-		0.250	0.000	0.250	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604320M / *Rapid Technology Capability Prototype*	**Project (Number/Name)** 0386 / *Rapid Prototype Development, Marine Corps*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Information Warfare OPFOR Assessment	TBD	Electronic Proving Ground (EPG) : Ft Huachuca, AZ	0.000	0.000		0.000		0.263	Mar 2019	-		0.263	0.000	0.263	-
Urban Engagement Systems OPFOR Assessment	C/BA	Muscatatuck : Bulerville, IN	0.000	0.000		0.000		0.150	Mar 2019	-		0.150	0.000	0.150	-
		Subtotal	0.000	0.000		0.000		0.663		-		0.663	0.000	0.663	N/A

Remarks

FY19 Operations Forces (OPFOR) Assessment Autonomous Vehicles: effort test prototypes, and assess the use in a variety of combat and supporting use employments, vehicles capable of sensing their environment, while navigating and functioning independently without human conduction to take evasive or defensive action and avoid detection, tracking, targeting or attack, provide an alternative reconnoiter capability in non-permissive settings for the purpose of mapping and patrolling for the purpose of intensifying combat power and reducing risk to the force.

FY19 OPFOR Assessment Information Warfare: effort will test prototypes, and assess various information systems that provide small unit ability to undermine local opposing force information quality, while ensuring friendly forces a timely, accurate, superior capability to automatically correlate relevant active and passive information from organic and non-organic sensors.

FY19 OPFOR Assessment Urban Engagement Systems; efforts will test prototypes on a state of the art urban range with appropriate buildings and streets that properly reflect an urban environment. Systems must locate and track opposing forces in tall buildings, narrow alleys, sewage tunnels and subway systems in order to minimize friendly force exposure, reduce potential collateral damage, and offer increased force protection.

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Analysis Services	WR	NSWC Crane : Crane, IN	0.000	0.000		0.150	Nov 2017	0.000		-		0.000	Continuing	Continuing	Continuing
Program office support	TBD	TBD : Not Specified	0.000	0.000		0.225	Dec 2017	0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	0.000	0.000		0.375		0.000		-		0.000	Continuing	Continuing	N/A

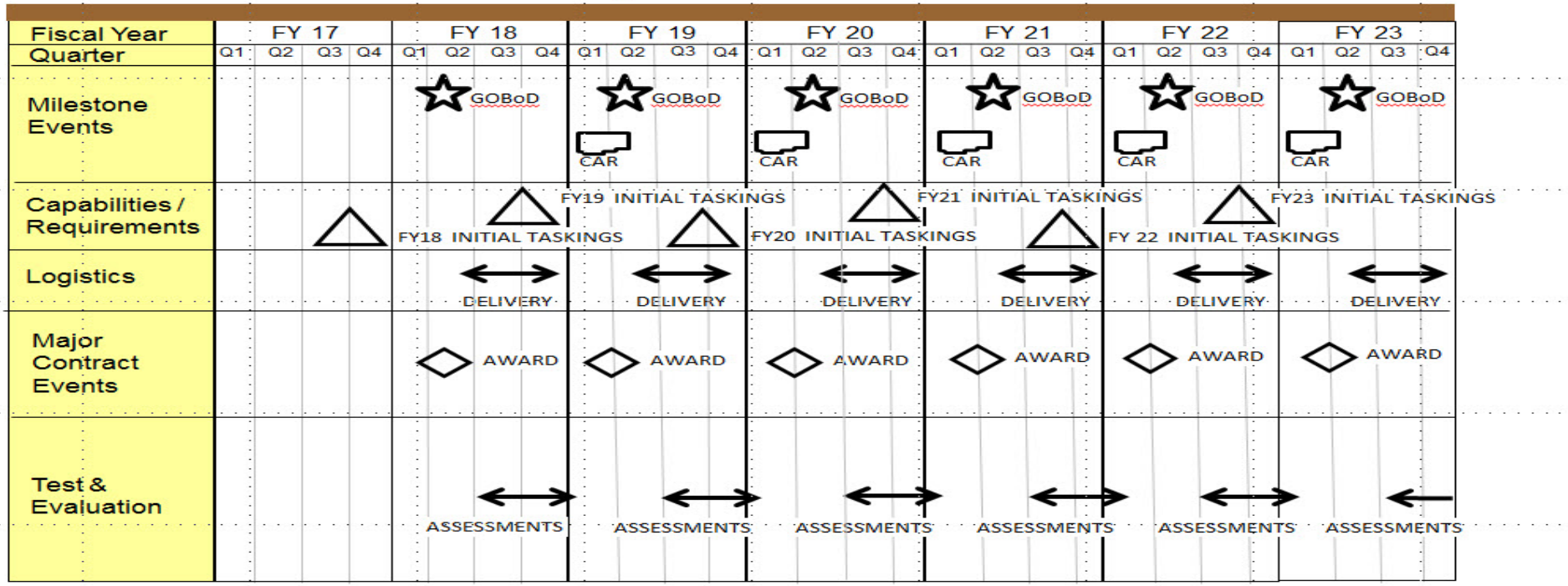
Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604320M / *Rapid Technology Capability Prototype*	Project (Number/Name) 0386 / *Rapid Prototype Development, Marine Corps*	

	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000		7.055		7.107		-		7.107	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604320M / *Rapid Technology Capability Prototype*	**Project (Number/Name)** 0386 / *Rapid Prototype Development, Marine Corps*

RAPID PROTOTYPE DEVELOPMENT, MARINE CORPS
(Marine Corps Rapid Capabilities Office)
Program Schedule



ACRONYMS
CAR – Capability Assessment Report
GOBoD – General Officer Board of Directors
EMS – Electromagnetic Spectrum

KEY
GOBoD Decision
Documentation
Contract Action
Key Event
Assessments

FY 18 PROJECTS
Tactical EMS Operations
Autonomous Unmanned Swarming
Long-Range Precision Fires

FY 19 PROJECTS
Autonomous Vehicles
Tactical Information Warfare
Urban Engagement Systems

FY 20 – 23 PROJECTS
TBD

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604320M / *Rapid Technology Capability Prototype*	**Project (Number/Name)** 0386 / *Rapid Prototype Development, Marine Corps*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 0386				
Contract Award	2	2019	2	2019
Prototype Deliveries	2	2019	4	2019
Operations Forces (OPFOR) Assessments	2	2019	1	2020