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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Office of the Secretary Of Defense **Date:** April 2022

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604250D8Z I <i>Advanced Innovative Technologies</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	5,108.455	732.208	777.199	1,145.358	0.000	1,145.358	1,036.754	776.342	520.515	518.734	Continuing	Continuing
250: <i>Advanced Innovative Technologies</i>	5,108.455	732.208	777.199	1,145.358	0.000	1,145.358	1,036.754	776.342	520.515	518.734	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Strategic Capabilities Office (SCO) develops, demonstrates, and transitions game-changing capabilities to shape and counter emerging threats and increase the lethality of the Joint Force in contested environments. The SCO combines capability innovation with concepts of operation to develop novel concepts solving critical national security challenges in partnership with the Services, Defense Agencies, Combatant Commands (CCMDS), Joint Chiefs of Staff, Intelligence Community, and the Office of the Secretary of Defense (OSD).

B. Program Change Summary (\$ in Millions)

	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>
Previous President's Budget	749.030	716.456	0.000	0.000	0.000
Current President's Budget	732.208	777.199	1,145.358	0.000	1,145.358
Total Adjustments	-16.822	60.743	1,145.358	0.000	1,145.358
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	63.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.145	-			
• SBIR/STTR Transfer	-16.677	-			
• Adjustments to Budget Year	-	-	1,145.358	-	1,145.358
• FFRDC Reduction	-	-2.257	-	-	-

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 250: *Advanced Innovative Technologies*

Congressional Add: *Micro Nuclear Reactor Program (Pele)*

Congressional Add: *Predictive Autonomous Navigational Routing System Phase II*

Congressional Add Subtotals for Project: 250

Congressional Add Totals for all Projects

	FY 2021	FY 2022
Congressional Add: <i>Micro Nuclear Reactor Program (Pele)</i>	70.000	60.000
Congressional Add: <i>Predictive Autonomous Navigational Routing System Phase II</i>	-	3.000
Congressional Add Subtotals for Project: 250	70.000	63.000
Congressional Add Totals for all Projects	70.000	63.000

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Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0604250D8Z / <i>Advanced Innovative Technologies</i>				Project (Number/Name) 250 / <i>Advanced Innovative Technologies</i>			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
250: <i>Advanced Innovative Technologies</i>	5,108.455	732.208	777.199	1,145.358	0.000	1,145.358	1,036.754	776.342	520.515	518.734	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Strategic Capabilities Office (SCO) develops, demonstrates, and transitions game-changing capabilities to shape and counter emerging threats and increase the lethality of the Joint Force in contested environments. The SCO combines capability innovation with concepts of operation and information management to develop novel concepts solving critical national security challenges in partnership with the Services, Defense Agencies, Combatant Commands (CCMDS), Joint Chiefs of Staff, Intelligence Community, and the Office of the Secretary of Defense (OSD).

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2021	FY 2022	FY 2023
Title: Alternate Strike	20.011	-	-
Description: The Alternate Strike project demonstrates feasibility and utility of launching existing/modified weapons from existing launch platforms. This project will retire risks associated with cross platform integration to enable transition of new weapon/system combinations to Service partners. This project was completed in FY 2021.			
Title: ARCADE	-	-	12.100
Description: Due to the classified nature of this project, specific applications and details are available at a higher classification level.			
FY 2023 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level.			
FY 2022 to FY 2023 Increase/Decrease Statement: Arcade enters the prototyping phase in FY2023.			
Title: Aurora	17.511	17.589	-
Description: The Aurora project provides mission planning and execution aids to support fleet operations. Specific applications and detailed plans are available at a higher classification level.			
FY 2022 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level.			
FY 2022 to FY 2023 Increase/Decrease Statement:			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
The change is due to completion of the project.				
Title: Avatar		30.606	53.416	6.000
Description: The Avatar project develops enhanced manned-unmanned capabilities. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.				
FY 2022 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
FY 2023 Plans: Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.				
FY 2022 to FY 2023 Increase/Decrease Statement: The decrease is consistent with the planned project phasing which is available at higher classification levels.				
Title: Bedlam		-	-	9.500
Description: Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
FY 2023 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
FY 2022 to FY 2023 Increase/Decrease Statement: Bedlam enters the prototyping phase in FY2023.				
Title: Breaker		0.235	-	-
Description: The Breaker demonstration provides Combatant Commanders with long range effects against targets. Due to the nature of these projects, specific applications and detailed plans are available at a higher classification level. The project was completed in FY 2021.				
Title: Carnac		13.600	-	-
Description: The Carnac project applies machine learning algorithms and techniques to existing sensors in order to reduce operator workload and data throughput requirements. Due to the nature of this project, specific applications and detailed plans are available at a higher classification. The project was completed in FY 2021.				
Title: Classified Projects		331.969	370.011	644.620

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Description: Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p> <p>FY 2022 Plans: Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p> <p>FY 2023 Plans: Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The increase is consistent with the planned projects phasing which are available at higher classification levels.</p>				
<p>Title: Contender</p> <p>Description: SCO will develop and demonstrate an operational prototype that will enable more capable weapons system. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level. This project was completed in FY 2021.</p>		0.485	-	-
<p>Title: Eclipse</p> <p>Description: The Eclipse project accelerates the maturation and fielding of emerging disruptive technologies. Specific applications and detailed plans are available at a higher classification level.</p> <p>FY 2022 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p>FY 2023 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The decrease is consistent with the planned project phasing which is available at higher classification levels.</p>		11.663	25.300	7.000
<p>Title: Emerging Opportunities</p> <p>Description: Implementation of small new capabilities or augmentations as a result of latest intelligence and threats analysis.</p> <p>FY 2023 Plans: Opportunities will be selected during the execution year.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p>		-	-	7.800

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
Emerging Opportunities is a new activity in FY2023.				
Title: Ghost Fleet Description: SCO will develop and demonstrate fleet integrated, operational prototype unmanned maritime vehicles to fill existing mission requirements for Combatant Commanders. Due to the classified nature of this project, specific applications and details are available at a higher classification level. This project was completed in FY 2021.		28.251	-	-
Title: Hoover Description: The Hoover project applies machine learning algorithms and techniques in order to reduce operator workload and data throughput requirements. Due to the classified nature of this project, specific applications and detailed plans are available at a higher classification. FY 2022 Plans: <ul style="list-style-type: none"> • Incorporate feedback from FY 2021 demonstration events • Conduct additional prototype demonstration tests • Continued refinement of machine learning algorithms FY 2022 to FY 2023 Increase/Decrease Statement: The decrease is due to planned completion of the project.		53.626	32.030	-
Title: Hurt Locker Description: The Hurt Locker project demonstrates feasibility and utility of alternative system deployment. This program will retire risks associated with cross platform integration of existing weapons control systems. Due to the nature of this project, specific applications and detailed plans are available at a higher classification. FY 2022 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level. FY 2023 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level. FY 2022 to FY 2023 Increase/Decrease Statement: The increase is consistent with the planned project phasing which is available at higher classification levels.		31.016	13.500	48.500
Title: Hypervelocity Gun Weapon System (HGWS)		3.000	20.000	151.000

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>Description: Cost-effective, large magazine point defense will be demonstrated by closing the fire control loop between existing sensors and prototype projectiles launched from existing families of powder guns. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p> <p>FY 2022 Plans: The HGWS project will support Pre-Engineering & Manufacturing Development (EMD) activities for the radar, gun, fire direction, and projectile related to transition efforts.</p> <p>FY 2023 Plans: The HGWS project will support initiation of the Engineering & Manufacturing Development (EMD) phase in preparation for transition efforts.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The increase supports initiation of the EMD phase.</p>			
<p>Title: IKE</p> <p>Description: The Ike program provides a joint cyber platform. Specific applications and detailed plans are available at a higher classification level. Ike transitioned to the Joint Cyber Command and Control (JCC2) program management office in FY 2021.</p>	30.600	-	-
<p>Title: LiTE Saber</p> <p>Description: The LiTE Saber project will develop and demonstrate a ubiquitous tactical command, control and communication capability in relevant combat environments. Due to the classified nature of this project, specific applications and detailed plans are available at a higher classification. This project was completed in FY 2021.</p>	10.964	-	-
<p>Title: Mission Support</p> <p>Description: These funds provide management and administrative support costs for the Strategic Capabilities Office. These costs include reimbursable personnel funding, building rent, physical security, travel, supplies and equipment, information technology, contractor support (Systems Engineering and Technical Assistance (SETA)), and the SBIR/STTR assessment (FY21 number is reduced for executed SBIR/STTR budget transfer).</p> <p>FY 2022 Plans:</p>	31.439	57.935	78.988

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>These funds provide management and administrative support costs for the Strategic Capabilities Office. These costs include reimbursable personnel funding, building rent, physical security, travel, supplies and equipment, information technology, contractor support (Systems Engineering and Technical Assistance (SETA)). This also includes required funding for SBIR/STTR.</p> <p>FY 2023 Plans: These funds provide management and administrative support costs for the Strategic Capabilities Office. These costs include reimbursable personnel funding, building rent, physical security, travel, supplies and equipment, information technology, contractor support (Systems Engineering and Technical Assistance (SETA)). This also includes required funding for SBIR/STTR.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The increase is due to cost growth of the support services provided to the projects, and the increased SBIR/STTR budget for the higher extramural R&D budget.</p>			
<p>Title: Pele</p> <p>Description: Develop a prototype transportable nuclear microreactor to be demonstrated by FY 2025 that can generate 1-5 MW of electric power, is transportable in standard shipping containers, and meets safety, legal, and regulatory requirements to minimize risk of radiation exposure, nuclear proliferation, and environmental impact. In addition, testing, modeling, and analysis will be performed to prepare for future service transition decisions.</p> <p>FY 2022 Plans: The Pele project will complete the design phase, which includes materials testing, leading to a final down-select to one reactor design. The NEPA Final Environmental Impact Statement (EIS) will be completed, with a Record of Decision (ROD) made. Preliminary safety and design analysis will be performed by the Department of Energy. Modeling will be performed to study the survivability of the designs under adverse conditions, including kinetic. Specific applications and details are available at a higher classification level.</p> <p>FY 2023 Plans: Subject to the conclusion of the NEPA EIS process with a ROD selecting the proposed action, the Pele project will begin construction of the prototype transportable nuclear microreactor. Additional work will be performed by the Department of Energy toward a Final Documented Safety Analysis. Pele will also begin fabrication of the HALEU TRISO pellets and compacts for the reactor core, and will prepare those compacts for shipment to the assembly site, including regulatory approval. The project will support the winning vendor in seeking regulatory approval for U.S. highway transportation of the post-operation reactor. Survivability testing will be performed with sub-scale models in order to validate modeling. Operational doctrine and training</p>	-	57.000	130.500

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>concepts will be studied and developed in order to inform a future service transition. Specific applications and details are available at a higher classification level.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The increase is a result of completing the final design phase and taking the necessary regulatory and environmental review steps in preparation for construction.</p>				
<p>Title: Point Break</p> <p>Description: Due to the classified nature of this project, specific applications and details are available at a higher classification level. Point Break started in FY 2022.</p> <p>FY 2022 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p>FY 2023 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The increase is consistent with the planned project phasing which is available at higher classification levels.</p>		-	28.600	41.700
<p>Title: Quiet Riot</p> <p>Description: The Quiet Riot project will leverage previous investments to demonstrate the feasibility of providing Combatant Commanders additional options. Due to the classified nature of this project, specific applications and detailed plans are available at a higher classification.</p> <p>FY 2022 Plans: • Perform test & evaluation to determine technical and operational effectiveness</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The decrease is due to completion of the project.</p>		-	8.018	-
<p>Title: Sea Dragon</p> <p>Description: A cost-effective capability will be demonstrated by integrating an existing weapon system with an existing platform. Due to the classified nature of this project, specific applications and detailed plans are available at a higher classification level. This project was completed in FY 2021.</p>		5.190	-	-
<p>Title: Sea Stalker</p>		3.295	-	-

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Description: The Sea Stalker will leverage existing low-cost, persistent maritime platforms to offer Combatant Commanders immediate options. Due to the classified nature of this project, specific applications and detailed plans are available at a higher classification level. This project was completed in FY 2021.</p> <p>Title: Serenity</p> <p>Description: The Serenity project will leverage existing technologies to analyze and demonstrate a prototype solution to ensure survivability of U.S. assets. Due to the classified nature of this project, specific applications and detailed plans are available at a higher classification level. This project was completed in FY 2021.</p>		0.660	-	-
<p>Title: Shawshank</p> <p>Description: The Shawshank program provides Special Operations Forces new and enhanced capabilities. Specific applications and detailed plans are available at a higher classification level.</p> <p>FY 2022 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p>FY 2023 Plans: Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The decrease is consistent with the planned project phasing which is available at higher classification levels.</p>		33.426	30.800	7.650
<p>Title: StormSystem</p> <p>Description: StormSystem will leverage existing capabilities to develop a suite of tools that disrupts the adversary cyber capabilities. Due to the classified nature of this project, specific applications and detailed plans are available at a higher classification level. This project was completed in FY 2021.</p>		2.445	-	-
<p>Title: Wildcat</p> <p>Description: The Wildcat project will demonstrate the feasibility and operational utility of enhanced weapon capability. Due to the classified nature of this project, specific applications and detailed plans are available at a higher classification. This project was completed in FY 2021.</p>		2.216	-	-
Accomplishments/Planned Programs Subtotals		662.208	714.199	1,145.358

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	FY 2021	FY 2022
<p>Congressional Add: Micro Nuclear Reactor Program (Pele)</p> <p>FY 2021 Accomplishments: Completed three preliminary engineering designs ("50% designs"), and selected two of the three teams to develop final engineering designs, which will be completed in FY22. Drafted the Pele Safety Design Strategy (SDS) which was approved by the Department of Energy, and began drafting the Preliminary Design Safety Analysis (PDSA). Completed the Draft Environmental Impact Statement in accordance with the National Environmental Policy Act (NEPA), released it to the public, and held two public hearings on potential public impacts of the Pele microreactor. FY 2022 and FY 2023 Plans are shown under Project Pele above.</p> <p>FY 2022 Plans: FY 2022 and FY 2023 Plans are shown under Project Pele above.</p>	70.000	60.000
<p>Congressional Add: Predictive Autonomous Navigational Routing System Phase II</p> <p>FY 2022 Plans: Seaman's Eye is developing a prototype of an affordable system to assess the wave and wind environment for an unmanned surface vessel (USV) platform using a fusion of passive sensors, physics-based modeling, and artificial intelligence. The system will support autonomous mission and navigation planning and will provide distributed sensing of the ocean environment to remote users.</p>	-	3.000
Congressional Adds Subtotals	70.000	63.000

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Office of the Secretary Of Defense **Date:** April 2022

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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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
Alternate Strike	Various	Various : Various	439.669	20.011		-		-		-		-	0.000	459.680	-
ARCADE	Various	Various : Various	-	-		-		12.100		-		12.100	23.900	36.000	-
Aurora	Various	Various : Various	18.000	17.511		17.589		-		-		-	0.000	53.100	-
Avatar	Various	Various : Various	187.777	30.606		53.416		6.000		-		6.000	0.000	277.799	-
Bedlam	Various	Various : Various	-	-		-		9.500		-		9.500	26.500	36.000	-
Breaker	Various	Various : Various	64.328	0.235		-		-		-		-	0.000	64.563	-
Carnac	Various	Various : Various	40.592	13.600		-		-		-		-	0.000	54.192	-
Classified Projects	Various	Various : Various	89.212	331.969		370.011		644.620		-		644.620	Continuing	Continuing	-
Contender	Various	Various : Various	262.630	0.485		-		-		-		-	0.000	263.115	-
Eclipse	Various	Various : Various	29.378	11.663		25.300		7.000		-		7.000	0.000	73.341	-
Emerging Opportunities	Various	Various : Various	-	-		-		7.800		-		7.800	Continuing	Continuing	-
Ghost Fleet	Various	Various : Various	346.441	28.251		-		-		-		-	0.000	374.692	-
Hoover	Various	Various : Various	181.255	53.626		32.030		-		-		-	0.000	266.911	-
Hurt Locker	Various	Various : Various	145.285	31.016		13.500		48.500		-		48.500	0.000	238.301	-
HGWS	Various	Various : Various	772.611	3.000		20.000		151.000		-		151.000	347.000	1,293.611	-
IKE	Various	Various : Various	-	30.600		-		-		-		-	0.000	30.600	-
LiTE Saber	Various	Various : Various	160.284	10.964		-		-		-		-	0.000	171.248	-
Mission Support	Various	Various : Various	74.755	31.439		57.935		78.988		-		78.988	Continuing	Continuing	-
Pele	Various	Various : Various	63.000	70.000		117.000		130.500		-		130.500	80.500	461.000	-
Point Break	Various	Various : Various	-	-		28.600		41.700		-		41.700	13.800	84.100	-
Quiet Riot	Various	Various : Various	19.475	-		8.018		-		-		-	0.000	27.493	-
Sea Dragon	Various	Various : Various	743.489	5.190		-		-		-		-	0.000	748.679	-
Sea Stalker	Various	Various : Various	75.670	3.295		-		-		-		-	0.000	78.965	-
Serenity	Various	Various : Various	42.810	0.660		-		-		-		-	0.000	43.470	-
Shawshank	Various	Various : Various	122.980	33.426		30.800		7.650		-		7.650	0.000	194.856	-
StormSystem	Various	Various : Various	41.539	2.445		-		-		-		-	0.000	43.984	-
Wildcat	Various	Various : Various	141.576	2.216		-		-		-		-	0.000	143.792	-
Completed Projects	Various	Various : Various	1,045.699	-		-		-		-		-	-	-	-

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FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Alternative Strike	
Product Development	[REDACTED]
ARCADE	
Product Development	[REDACTED]
Aurora	
Product Development	[REDACTED]
Avatar	
Product Development	[REDACTED]
Bedlam	
Product Development	[REDACTED]
Breaker	
Product Development	[REDACTED]
Carnac	
Product Development	[REDACTED]
Classified Projects	
Product Development	[REDACTED]
Contender	
Product Development	[REDACTED]
Eclipse	
Product Development	[REDACTED]
Emerging Opportunities	
Product Development	[REDACTED]
Ghost Fleet	
Product Development	[REDACTED]

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Office of the Secretary Of Defense **Date:** April 2022

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	Project (Number/Name) 250 / <i>Advanced Innovative Technologies</i>
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	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Product Development																												
<i>Wildcat</i>																												
Product Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Office of the Secretary Of Defense		Date: April 2022
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	Project (Number/Name) 250 / <i>Advanced Innovative Technologies</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Alternative Strike				
Product Development	1	2021	4	2022
ARCADE				
Product Development	1	2023	4	2026
Aurora				
Product Development	1	2021	4	2023
Avatar				
Product Development	1	2021	4	2024
Bedlam				
Product Development	1	2023	4	2026
Breaker				
Product Development	1	2021	4	2022
Carnac				
Product Development	1	2021	4	2022
Classified Projects				
Product Development	1	2021	4	2027
Contender				
Product Development	1	2021	4	2022
Eclipse				
Product Development	1	2021	4	2024
Emerging Opportunities				
Product Development	1	2023	4	2027

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Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	Project (Number/Name) 250 / <i>Advanced Innovative Technologies</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Ghost Fleet</i>				
Product Development	1	2021	4	2022
<i>Hoover</i>				
Product Development	1	2021	4	2023
<i>Hurt Locker</i>				
Product Development	1	2021	4	2024
<i>Hypervelocity Gun Weapons System (HGWS)</i>				
Product Development	1	2021	4	2026
<i>IKE</i>				
Product Development	1	2021	4	2021
<i>LiTE Saber</i>				
Product Development	1	2021	4	2022
<i>Pele</i>				
Product Development	1	2021	4	2026
<i>Point Break</i>				
Product Development	1	2022	4	2025
<i>Quiet Riot</i>				
Product Development	1	2021	4	2023
<i>Sea Dragon</i>				
Product Development	1	2021	4	2022
<i>Sea Stalker</i>				
Product Development	1	2021	4	2022
<i>Serenity</i>				
Product Development	1	2021	4	2022
<i>Shawshank</i>				

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Office of the Secretary Of Defense **Date:** April 2022

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	Project (Number/Name) 250 / <i>Advanced Innovative Technologies</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Product Development	1	2021	4	2024
<i>StormSystem</i>				
Product Development	1	2021	4	2022
<i>Wildcat</i>				
Product Development	1	2021	4	2022