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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z I <i>Advanced Innovative Technologies</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	4,052.705	1,106.137	749.030	716.456	-	716.456	-	-	-	-	-	-
250: <i>Advanced Innovative Technologies</i>	4,029.318	1,079.137	718.908	716.456	-	716.456	-	-	-	-	-	-
295: <i>SCO Cyber Efforts</i>	23.387	27.000	30.122	-	-	-	-	-	-	-	-	-

**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 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>
Previous President's Budget	1,133.365	730.508	635.984	-	635.984
Current President's Budget	1,106.137	749.030	716.456	-	716.456
Total Adjustments	-27.228	18.522	80.472	-	80.472
• Congressional General Reductions	-	-0.478			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	19.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-1.800	-			
• SBIR/STTR Transfer	-25.234	-			
• Cancelled Account Adjustments	-0.194	-			
• Program Adjustments	-	-	80.472	-	80.472

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

**Project:** 250: *Advanced Innovative Technologies*

Congressional Add: *Smarter Machine Learning*

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

Congressional Add Subtotals for Project: 250

Congressional Add Totals for all Projects

FY 2020	FY 2021
14.500	-
63.000	70.000
77.500	70.000
77.500	70.000

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**Change Summary Explanation**

The FY 2022 funding request was reduced by \$62.729 million to account for the availability of prior year execution balances.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>				<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
250: <i>Advanced Innovative Technologies</i>	4,029.318	1,079.137	718.908	716.456	-	716.456	-	-	-	-	-	-
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 2020	FY 2021	FY 2022
<p><b>Title:</b> Advanced Navigation</p> <p><b>Description:</b> Leverage existing technologies to analyze, build and demonstrate a prototype advanced navigation technique for contested environments and integrate into a mature weapons system.</p>	0.064	-	-
<p><b>Title:</b> Alternate Strike</p> <p><b>Description:</b> The Alternate Strike program 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. Due to the nature of these projects, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 Plans:</b> Specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease from FY 2021 to FY 2022 is due to completion of this project.</p>	63.229	21.107	-
<p><b>Title:</b> Aurora</p> <p><b>Description:</b> The Aurora program provides mission planning and execution aids to support fleet operations. Specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 Plans:</b></p> <ul style="list-style-type: none"> <li>• Obtain authority to connect on proper network(s)</li> </ul>	13.922	17.511	17.589

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<ul style="list-style-type: none"> <li>• Complete intel analysis</li> <li>• Selection of threat models</li> <li>• Begin operationally relevant demonstrations</li> </ul> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>• Integrate user feedback</li> <li>• Additional threat models</li> <li>• Scale to larger volume of assets</li> <li>• Capstone demonstration prior to transition</li> </ul> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease from FY 2021 to FY 2022 is due to the program plan which is available at higher classification levels.</p>				
<p><b>Title:</b> Avatar</p> <p><b>Description:</b> The Avatar program develops enhanced manned-unmanned capabilities. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 Plans:</b></p> <ul style="list-style-type: none"> <li>• Complete mission and operational effectiveness analysis.</li> <li>• Continue open systems architecture refinement.</li> <li>• Continue autonomous behavior algorithm refinement</li> <li>• Continue hardware in the loop testing of prototype manned-unmanned teaming capabilities to confirm design and functionality.</li> <li>• Continue flight demonstration of autonomy behaviors on unmanned platforms.</li> <li>• Continue integration of payloads onto operational platforms.</li> <li>• Continue Pilot in the Loop simulation testing.</li> <li>• Initiate large scale Manned-Unmanned Teaming demonstration with operational aircraft,</li> </ul> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>• Complete open systems architecture refinement.</li> <li>• Complete autonomous behavior algorithm refinement</li> <li>• Continue hardware in the loop testing of prototype manned-unmanned teaming capabilities to confirm design and functionality.</li> <li>• Continue flight demonstration of autonomy behaviors on unmanned platforms.</li> <li>• Continue integration of payloads onto operational platforms.</li> <li>• Continue Pilot in the Loop simulation testing.</li> </ul>		60.174	32.500	52.150

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<ul style="list-style-type: none"> <li>Continue large scale Manned-Unmanned Teaming demonstration with operational aircraft</li> </ul> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The increase from FY 2021 to FY 2022 is consistent with the planned program which is available at higher classification levels.</p>				
<p><b>Title:</b> Breaker</p> <p><b>Description:</b> 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.</p>		8.172	-	-
<p><b>Title:</b> Carnac</p> <p><b>Description:</b> 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.</p> <p><b>FY 2021 Plans:</b></p> <ul style="list-style-type: none"> <li>Integration of machine learning algorithms</li> <li>Conduct prototype demonstration tests</li> </ul> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease of \$6.400 million from FY 2021 to FY 2022 is due the completion of the project.</p>		20.700	6.400	-
<p><b>Title:</b> CD ATACMS Support</p> <p><b>Description:</b> These funds support transition of CD ATACMS to the Army.</p>		4.383	-	-
<p><b>Title:</b> Chaos</p> <p><b>Description:</b> The Chaos program provides a novel capability to support ground operations. Specific applications and detailed plans are available at a higher classification level.</p>		13.820	-	-
<p><b>Title:</b> Classified Projects</p> <p><b>Description:</b> Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p> <p><b>FY 2021 Plans:</b> Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p> <p><b>FY 2022 Plans:</b></p>		107.536	331.645	292.011

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
Due to the classified nature of these projects, specific applications and details are available at a higher classification level.				
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Due to the classified nature of these projects, specific applications and details are available at a higher classification level.				
<b>Title:</b> C2IE <b>Description:</b> The Command and Control of the Information Environment (C2IE) project provides Combatant Commands, Services, Agencies, and Department of Defense leadership the ability to detect, monitor, understand, and act in the information environment. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.		0.060	-	-
<b>Title:</b> Contender <b>Description:</b> 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.		32.198	-	-
<b>Title:</b> Eclipse <b>Description:</b> The Eclipse program accelerates the maturation and fielding of emerging disruptive technologies. Specific applications and detailed plans are available at a higher classification level.  <b>FY 2021 Plans:</b> <ul style="list-style-type: none"><li>• Continue analysis to define system characteristics and measures of effectiveness</li><li>• Conduct integrated platform testing in multiple domains and modalities</li><li>• Complete physical design evaluations and modifications</li></ul> <b>FY 2022 Plans:</b> <ul style="list-style-type: none"><li>• Conduct software/hardware demo for multiple domains and modalities</li><li>• Transition existing risk reduction results to new industry performers</li><li>• Establish metadata and interface standards for industry performers</li><li>• Establish metric quantities and process for verification and validation</li><li>• Establish modeling and simulation environments</li><li>• Conduct recurring digital example generation and reinjection process</li></ul> <b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The increase from FY 2021 to FY 2022 is consistent with the planned program phasing which is available at higher classification levels.		22.200	15.130	25.300
<b>Title:</b> Ghost Fleet		110.168	29.203	-

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Description:</b> SCO will develop and demonstrate fleet integrated, operational prototype unmanned maritime vehicles to fill existing mission requirements for Combatant Commanders. Due to the nature of these projects, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 Plans:</b> Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease from FY 2021 to FY 2022 is due to completion of this project and transition to the Navy.</p>				
<p><b>Title:</b> Hoover</p> <p><b>Description:</b> The Hoover project applies machine learning algorithms and techniques 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.</p> <p><b>FY 2021 Plans:</b></p> <ul style="list-style-type: none"> <li>• Continued integration activities</li> <li>• Conduct prototype demonstration tests</li> <li>• Refinement of machine learning algorithms based on feedback during demonstrations</li> </ul> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>• Incorporate feedback from FY21 demonstration events</li> <li>• Conduct additional prototype demonstration tests</li> <li>• Continued refinement of machine learning algorithms</li> </ul> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease from FY 2021 to FY 2022 is due to the completion of the acquisition of several major hardware components.</p>		71.375	61.781	32.030
<p><b>Title:</b> Hornet's Nest</p> <p><b>Description:</b> The Hornet's Nest program will develop a multi-mission Unmanned Aerial Vehicle (UAV). Due to the nature of these projects, specific applications and detailed plans are available at a higher classification level.</p>		56.361	-	-
<p><b>Title:</b> Hurt Locker</p>		44.000	29.255	13.500

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Description:</b> 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.</p> <p><b>FY 2021 Plans:</b></p> <ul style="list-style-type: none"> <li>• Continue hardware and software system integration spirals.</li> <li>• Conduct system demonstrations to support final design spiral for service transition.</li> <li>• Develop detailed sensor and communications element designs to support prototype development for additional mission areas.</li> <li>• Integrate existing sensor and communications elements into an initial prototype system for early demonstration and service transition.</li> </ul> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>• Continue hardware fabrication of an alternative communications element and integrate with the prototype system.</li> <li>• Implement hardware and software modifications to the prototype system configuration for additional existing weapons control systems.</li> <li>• Finalize hardware and software integration of additional sensor and communications elements to support an extended prototype demonstration in FY 2023 for additional mission areas.</li> </ul> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease from FY 2021 to FY 2022 is to execute the follow-on design iteration specified in FY 2021 tasking. Additional details at a higher classification level.</p>				
<p><b>Title:</b> Hypervelocity Gun Weapon System (HGWS)</p> <p><b>Description:</b> 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><b>FY 2021 Plans:</b> No funding in FY 2021.</p> <p><b>FY 2022 Plans:</b> The HGWS project will support Pre-Engineering &amp; Manufacturing Development (EMD) activities for the radar, gun, fire direction, and projectile related to transition efforts.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b></p>		6.975	0.000	20.000

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
The increase of \$20 millions from FY 2021 to FY 2022 will support pre-engineering and manufacturing development activities for the radar, gun, fire detection, and projectile related to transition efforts.				
<b>Title:</b> Kingfisher <b>Description:</b> The Kingfisher project will leverage previous investments in maritime systems to demonstrate the feasibility and operational utility of naval weapons. Due to the nature of this project, specific applications and detailed plans are available at a higher classification.		1.578	-	-
<b>Title:</b> LiTE Saber <b>Description:</b> The LiTE Saber program will develop and demonstrate a ubiquitous tactical command, control and communication capability in relevant combat environments. Due to the nature of this project, specific applications and detailed plans are available at a higher classification. <b>FY 2021 Plans:</b> Due to the nature of this project, specific applications and detailed plans are available at a higher classification. <b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease from FY 2021 to FY 2022 is due to completion of this project.		21.324	10.964	-
<b>Title:</b> Maven <b>Description:</b> Leverage advanced commercial technologies to provide advantage to the warfighter in contested environments. Due to the nature of some of these projects, specific applications and detailed plans are available at a higher classification level.		10.000	-	-
<b>Title:</b> Mission Support <b>Description:</b> 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. <b>FY 2021 Plans:</b> 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. <b>FY 2022 Plans:</b>		70.524	50.856	58.458

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<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><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The increase from FY 2021 to FY 2022 is a result of the organization-wide relocation to a new facility and increased sustainment support costs which will be stabilizing in FY 2022.</p>				
<p><b>Title:</b> Motley Crew</p> <p><b>Description:</b> The Motley Crew project will leverage near term technologies being developed to enable higher capability in weapons systems. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p>		11.987	-	-
<p><b>Title:</b> Pele</p> <p><b>Description:</b> Develop a prototype transportable nuclear microreactor to provide resilient power for a variety of DoD missions. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2022 Plans:</b> The Pele project continues activities initiated under Congressional direction in FY 2020 and FY 2021. Pele will complete the design phase and prepare for construction of a 1-5 Megawatt electric transportable nuclear microreactor. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The Pele project continues activities initiated under Congressional direction in FY 2020 and FY 2021. Pele will complete the design phase and prepare for construction of a 1-5 Megawatt electric transportable nuclear microreactor. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p>		-	-	60.000
<p><b>Title:</b> Perdix Gen 7</p> <p><b>Description:</b> Develop next generation micro-UAV (unmanned air vehicle) with improved endurance and processing power to allow for multi-mission capabilities. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p>		4.807	-	-
<p><b>Title:</b> Point Break</p>		0.000	-	16.600

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Description:</b> Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p> <p><b>FY 2022 Plans:</b> Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p>				
<p><b>Title:</b> Quiet Riot</p> <p><b>Description:</b> The Quiet Riot project will leverage previous investments to demonstrate the feasibility of providing Combatant Commanders additional options. Due to the nature of this project, specific applications and detailed plans are available at a higher classification.</p> <p><b>FY 2022 Plans:</b> • Perform test &amp; evaluation to determine technical and operational effectiveness</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The increase from FY 2021 to FY 2022 is due to anticipated completion of test planning and completion of feasibility assessments for certain sub-elements. Further information available on higher classification system.</p>		5.272	-	8.018
<p><b>Title:</b> Sea Dragon</p> <p><b>Description:</b> A cost-effective capability will be demonstrated by integrating an existing weapon system with an existing platform. Due to the nature of these projects, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 Plans:</b> Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease from FY 2021 to FY 2022 is due to completion of this project.</p>		40.917	2.713	-
<p><b>Title:</b> Sea Stalker</p> <p><b>Description:</b> The Sea Stalker will leverage existing low-cost, persistent maritime platforms to offer Combatant Commanders immediate options. Due to the nature of these projects, specific applications and detailed plans are available at a higher classification level.</p>		6.257	2.340	-

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>FY 2021 Plans:</b> Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease from FY 2021 to FY 2022 is due to completion of this project.</p>				
<p><b>Title:</b> Serenity</p> <p><b>Description:</b> The Serenity project will leverage existing technologies to analyze and demonstrate a prototype solution to ensure survivability of U.S. assets. Due to the nature of these projects, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 Plans:</b> The Serenity project will leverage existing technologies to analyze and demonstrate a prototype solution to ensure survivability of U.S. assets. Due to the nature of these projects, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease from FY 2021 to FY 2022 is due to completion of this project.</p>		8.465	0.660	-
<p><b>Title:</b> Shawshank</p> <p><b>Description:</b> 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><b>FY 2021 Plans:</b></p> <ul style="list-style-type: none"> <li>• Continue engineering feasibility assessments</li> <li>• Model testing and refinement</li> <li>• Acquire/build prototypes</li> </ul> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>• Model testing and refinement</li> <li>• Acquire/build prototypes</li> </ul> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease from FYY 2021 to FY 2022 is consistent with the planned program phasing which is available at higher classification levels.</p>		112.610	33.592	30.800
<p><b>Title:</b> Sirena</p>		-	-	90.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Office of the Secretary Of Defense		<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Description:</b> Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p> <p><b>FY 2022 Plans:</b> Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Due to the classified nature of these projects, specific applications and details are available at a higher classification level.</p>				
<p><b>Title:</b> Strike-X</p> <p><b>Description:</b> The Strike-X project provides alternatives to deliver near-term innovative strike capabilities to Combatant Commanders. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p>		10.012	-	-
<p><b>Title:</b> StormSystem</p> <p><b>Description:</b> StormSystem will leverage existing capabilities to develop a suite of tools that disrupts the adversary cyber capabilities. Due to the nature of these projects, specific applications and detailed plans are available at a higher classification level.</p> <p><b>FY 2021 Plans:</b> Funds are requested to complete integration of components and test the prototype at the transition location.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The decrease is due to the completion of this project.</p>		8.385	2.445	-
<p><b>Title:</b> Third Eye</p> <p><b>Description:</b> Third Eye is a data architecture that leverages existing and emerging sensors. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level.</p>		13.853	-	-
<p><b>Title:</b> Vanguard</p> <p><b>Description:</b> The Vanguard project will provide a capability to provide situational awareness across the battle field. Due to the classified nature of this project, specific applications and detailed plans are available at a higher classification level.</p>		11.384	-	-
<p><b>Title:</b> Wildcat</p>		28.925	0.806	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Office of the Secretary Of Defense		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Description:</b> The Wildcat project will demonstrate the feasibility and operational utility of enhanced weapon capability. Due to the nature of this project, specific applications and detailed plans are available at a higher classification.</p> <p><b>FY 2021 Plans:</b> The Wildcat project will demonstrate the feasibility and operational utility of enhanced weapon capability. Due to the nature of this project, specific applications and detailed plans are available at a higher classification.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The program is complete after FY 2021.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	1,001.637	648.908	716.456

	<b>FY 2020</b>	<b>FY 2021</b>
<p><b>Congressional Add:</b> Smarter Machine Learning <b>FY 2020 Accomplishments:</b> FY 2020 Congressional add.</p>	14.500	-
<p><b>Congressional Add:</b> Micro Nuclear Reactor Program (Pele) <b>FY 2020 Accomplishments:</b> FY 2020 Congressional add. <b>FY 2021 Plans:</b> FY 2021 Congressional add.</p>	63.000	70.000
<b>Congressional Adds Subtotals</b>	77.500	70.000

**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 2022 Office of the Secretary Of Defense** **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>
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<b>Product Development (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Advanced Navigation	C/Various	Various : Various	58.269	0.064	Mar 2020	-		-		-		-	-	-	-
Alternate Strike	MIPR	Various : Various	375.903	63.229	Aug 2020	21.107		-		-		-	-	-	-
Aurora	C/TBD	Various : Various	0.580	13.922	Dec 2019	17.511	Dec 2020	17.589	Dec 2021	-		17.589	-	-	-
Avatar	MIPR	Various : Various	126.976	60.174	Dec 2019	32.500	Dec 2020	52.150	Dec 2021	-		52.150	-	-	-
Breaker	C/CPFF	Various : Various	56.291	8.172	Mar 2020	-		-		-		-	-	-	-
Carnac	MIPR	Various : Various	19.898	20.700	Jan 2020	6.400	Jan 2021	-		-		-	-	-	-
CD ATACMS Support	C/Various	Various : Various	0.554	4.383	Jan 2020	-		-		-		-	-	-	-
Chaos	C/TBD	Various : Various	0.580	13.820	Dec 2019	-		-		-		-	-	-	-
Classified Projects	C/TBD	TBD : TBD	-	107.536	Jan 2020	331.645	Jan 2021	292.011	Jan 2022	-		292.011	-	-	-
C2IE	MIPR	Various : Various	89.458	0.060	Nov 2019	-		-		-		-	-	-	-
Contender	MIPR	Various : Various	231.447	32.198	Nov 2019	-		-		-		-	-	-	-
Eclipse	C/TBD	Various : Various	3.710	22.200	Dec 2019	15.130	Apr 2021	25.300	Dec 2021	-		25.300	-	-	-
Ghost Fleet	C/Various	Various : Various	235.321	110.168	Nov 2019	29.203		-		-		-	-	-	-
HGWS	C/TBD	Various : Various	765.690	6.975	Mar 2020	-		20.000	Dec 2021	-		20.000	-	-	-
Hoover	MIPR	Various : Various	108.925	71.375	Jan 2020	61.781	Nov 2020	32.030	Dec 2021	-		32.030	-	-	-
Hornet's Nest	MIPR	Various : Various	10.236	56.361	Jan 2020	-		-		-		-	-	-	-
Hurt Locker	MIPR	Various : Various	103.321	44.000	Jan 2020	29.255	Dec 2020	13.500	Dec 2021	-		13.500	-	-	-
Kingfisher	MIPR	Various : Various	39.731	1.578	Sep 2020	-		-		-		-	-	-	-
LiTE Saber	Various	Various : Various	139.018	21.324	Feb 2020	10.964		-		-		-	-	-	-
Maven	MIPR	Various, TBD : Various	20.064	10.000	Mar 2020	-		-		-		-	-	-	-
Micro Nuclear Reactor Program (Pele)	C/TBD	Various : Various	-	63.000	Mar 2020	70.000		60.000	Dec 2021	-		60.000	-	-	-
Motley Crew	MIPR	Various : Various	94.757	11.987	Jan 2020	-		-		-		-	-	-	-
Perdix Gen 7	FFRDC	Various : Various	28.366	4.807	Jan 2020	-		-		-		-	-	-	-
Mission Support	C/TBD	Various : Various	53.566	70.524	Mar 2020	50.856	Dec 2020	58.458	Dec 2021	-		58.458	-	-	-
Point Break	C/TBD	Classified : Classified	-	-		-		16.600	Jan 2022	-		16.600	-	-	-
Quiet Riot	MIPR	Various : Various	14.203	5.272	Jul 2020	-		8.018	Dec 2021	-		8.018	-	-	-

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Office of the Secretary Of Defense** **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>
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<b>Product Development (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Sea Dragon	Various	Various : Various	704.578	40.917	Jan 2020	2.713		-		-		-	-	-	-
Sea Stalker	MIPR	Various : Various	70.265	6.257	Jan 2020	2.340		-		-		-	-	-	-
Serenity	Various	Various : Various	34.349	8.465	Feb 2020	0.660		-		-		-	-	-	-
Shawshank	C/TBD	Various : Various	10.360	112.610	Mar 2020	33.592	Mar 2021	30.800	Dec 2021	-		30.800	-	-	-
Sirena	C/TBD	Classified : Classified	-	-		-		90.000	Dec 2021	-		90.000	-	-	-
StormSystem	Various	Various, TBD : Various	33.154	8.385	Oct 2019	2.445	Oct 2020	-		-		-	-	-	-
Smarter Machine Learning	SS/TBD	Various : Various	45.500	14.500	Jan 2020	-		-		-		-	-	-	-
Strike-X	MIPR	Various : Various	308.526	10.012		-		-		-		-	-	-	-
Third Eye	MIPR	Various, TBD : Various	117.808	13.853	Mar 2020	-		-		-		-	-	-	-
Vanguard	C/Various	Various, TBD : Various	13.851	11.384	Feb 2020	-		-		-		-	-	-	-
Wildcat	MIPR	Various, TBD : Various	114.063	28.925	Jan 2020	0.806		-		-		-	-	-	-
<b>Subtotal</b>			4,029.318	1,079.137		718.908		716.456		-		716.456	-	-	N/A

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	4,029.318	1,079.137	718.908	716.456	-	716.456	-	-	N/A

**Remarks**



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**Exhibit R-4, RDT&E Schedule Profile:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
<b><i>Hornet's Nest</i></b>																												
Product Development																												
<b><i>Hurt Locker</i></b>																												
Product Development																												
<b><i>Hypervelocity Gun Weapons System (HGWS)</i></b>																												
Product Development																												
<b><i>Kingfisher</i></b>																												
Product Development																												
<b><i>LiTE Saber</i></b>																												
Product Development																												
<b><i>Maven</i></b>																												
Product Development																												
<b><i>Motley Crew</i></b>																												
Product Development																												
<b><i>Pele</i></b>																												
Product Development																												
<b><i>Perdix Gen 7</i></b>																												
Product Development																												
<b><i>Point Break</i></b>																												
Product Development																												
<b><i>Quiet Riot</i></b>																												
Product Development																												
<b><i>Sea Dragon</i></b>																												
Product Development																												
<b><i>Sea Stalker</i></b>																												

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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																												
<b>Serenity</b>																												
Product Development																												
<b>Shawshank</b>																												
Product Development																												
<b>Sirena</b>																												
Product Development																												
<b>StormSystem</b>																												
Product Development																												
<b>Strike X</b>																												
Product Development																												
<b>Third Eye</b>																												
Product Development																												
<b>Vanguard</b>																												
Product Development																												
<b>Wildcat</b>																												
Product Development																												

	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
<b>Alternative Strike</b>																												
Product Development																												
<b>Aurora</b>																												
Product Development																												
<b>Avatar</b>																												



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**Exhibit R-4, RDT&E Schedule Profile:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>
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	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
<b>Kingfisher</b>																												
Product Development																												
<b>LiTE Saber</b>																												
Product Development																												
<b>Maven</b>																												
Product Development																												
<b>Motley Crew</b>																												
Product Development																												
<b>Pele</b>																												
Product Development																												
<b>Perdix Gen 7</b>																												
Product Development																												
<b>Point Break</b>																												
Product Development																												
<b>Quiet Riot</b>																												
Product Development																												
<b>Sea Dragon</b>																												
Product Development																												
<b>Sea Stalker</b>																												
Product Development																												
<b>Serenity</b>																												
Product Development																												
<b>Shawshank</b>																												
Product Development																												
<b>Sirena</b>																												

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>
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	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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																												
<b><i>StormSystem</i></b>																												
Product Development																												
<b><i>Strike X</i></b>																												
Product Development																												
<b><i>Third Eye</i></b>																												
Product Development																												
<b><i>Vanguard</i></b>																												
Product Development																												
<b><i>Wildcat</i></b>																												
Product Development																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2022 Office of the Secretary Of Defense		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Alternative Strike</b>				
Product Development	1	2017	4	2021
<b>Aurora</b>				
Product Development	1	2019	4	2022
<b>Avatar</b>				
Product Development	1	2018	4	2023
<b>Breaker</b>				
Product Development	1	2017	4	2020
<b>Carnac</b>				
Product Development	1	2018	4	2021
<b>Chaos</b>				
Product Development	1	2019	4	2020
<b>Classified</b>				
Product Development	1	2022	4	2025
<b>Contender</b>				
Product Development	1	2017	4	2020
<b>C2IE</b>				
Product Development	4	2017	4	2020
<b>Eclipse</b>				
Product Development	1	2019	4	2023
<b>Ghost Fleet</b>				
Product Development	1	2017	4	2021

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Hoover</i></b>				
Product Development	1	2018	4	2022
<b><i>Hornet's Nest</i></b>				
Product Development	1	2018	4	2024
<b><i>Hurt Locker</i></b>				
Product Development	2	2018	4	2026
<b><i>Hypervelocity Gun Weapons System (HGWS)</i></b>				
Product Development	1	2014	4	2022
<b><i>Kingfisher</i></b>				
Product Development	1	2018	4	2020
<b><i>LiTE Saber</i></b>				
Product Development	1	2017	4	2023
<b><i>Maven</i></b>				
Product Development	1	2018	3	2020
<b><i>Motley Crew</i></b>				
Product Development	1	2017	4	2020
<b><i>Pele</i></b>				
Product Development	1	2020	4	2025
<b><i>Perdix Gen 7</i></b>				
Product Development	4	2017	4	2020
<b><i>Point Break</i></b>				
Product Development	1	2022	4	2025
<b><i>Quiet Riot</i></b>				
Product Development	1	2016	4	2023
<b><i>Sea Dragon</i></b>				

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 250 / <i>Advanced Innovative Technologies</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Product Development	1	2017	4	2021
<b><i>Sea Stalker</i></b>				
Product Development	1	2017	4	2021
<b><i>Serenity</i></b>				
Product Development	1	2017	4	2025
<b><i>Shawshank</i></b>				
Product Development	1	2019	4	2023
<b><i>Sirena</i></b>				
Product Development	1	2022	4	2024
<b><i>StormSystem</i></b>				
Product Development	2	2018	4	2021
<b><i>Strike X</i></b>				
Product Development	2	2016	4	2020
<b><i>Third Eye</i></b>				
Product Development	2	2017	3	2020
<b><i>Vanguard</i></b>				
Product Development	1	2018	3	2020
<b><i>Wildcat</i></b>				
Product Development	1	2018	4	2020

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**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 295 / <i>SCO Cyber Efforts</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
295: <i>SCO Cyber Efforts</i>	23.387	27.000	30.122	-	-	-	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

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

The Strategic Capabilities Office (SCO) identifies, analyzes, demonstrates, and transitions game-changing applications of existing and near-term technology (and other U.S. Government capabilities) to shape and counter emerging threats. 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 2020	FY 2021	FY 2022
<b>Title:</b> Ike	27.000	30.122	-
<b>Description:</b> The Ike program provides a joint cyber platform. Specific applications and detailed plans are available at a higher classification level. The Ike program was a new start in FY 2019.			
<b>FY 2021 Plans:</b> The Ike program provides a joint cyber platform. Specific applications and detailed plans are available at a higher classification level.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Ike transitions to the Joint Cyber Command and Control (JCC2) program management office at the end of FY 2021.			
<b>Accomplishments/Planned Programs Subtotals</b>	27.000	30.122	-

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2022 Office of the Secretary Of Defense		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 295 / <i>SCO Cyber Efforts</i>

FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
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

<i>Product Development</i>	
lke	

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2022 Office of the Secretary Of Defense		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604250D8Z / <i>Advanced Innovative Technologies</i>	<b>Project (Number/Name)</b> 295 / <i>SCO Cyber Efforts</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Product Development</i></b>				
Ike	1	2020	2	2021