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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Office of the Secretary Of Defense **Date:** March 2024

<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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	6,596.780	1,116.024	1,085.826	994.226	-	994.226	1,022.712	1,044.364	1,061.162	1,083.450	Continuing	Continuing
250: <i>Advanced Innovative Technologies</i>	6,596.780	1,116.024	1,085.826	994.226	-	994.226	1,022.712	1,044.364	1,061.162	1,083.450	Continuing	Continuing

**Note**

New Start (Y/N): No

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

In support of the NDS Strategy of Deterring Aggression While Being Prepared to Prevail in Conflict, the Strategic Capabilities Office (SCO) develops, demonstrates, and transitions operationally impactful capabilities and effects to shape and counter emerging threats and increase the lethality of the Joint Force in contested environments. The SCO combines innovation with concepts of operation to develop novel capabilities 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 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	1,147.555	1,085.826	777.791	-	777.791
Current President's Budget	1,116.024	1,085.826	994.226	-	994.226
Total Adjustments	-31.531	0.000	216.435	-	216.435
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.116	-			
• SBIR/STTR Transfer	-31.415	-			
• Program adjustment	-	-	216.435	-	216.435

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

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

Congressional Add: *Pele Mobile Nuclear Microreactor*

Congressional Add: *Pele Second Source*

Congressional Add: *Seaman's Eye*

Congressional Add: *Service Tactical Signal Intelligence Upgrades*

	FY 2023	FY 2024
	17.000	-
	20.000	-
	8.000	-
	10.000	-

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

Congressional Add: *LIDAR C-UAS automated target Recognition*

Congressional Add Subtotals for Project: 250

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	5.000	-
	60.000	-
	60.000	-

**Change Summary Explanation**

FY 2023 was reduced for SBIR/STTR transfers to the executing program, and reduced for cancelled accounts.  
 FY 2025 is increased from previous budget request, to maintain the Strategic Capabilities Office's development of operationally impactful capabilities across the FYDP.

SCO's FY 2025 Pacific Deterrence Initiative (PDI) spending under Exercises, Training, Experimentation, and Innovation has decreased by \$90.2 million to \$910.426 million, with five new capability projects transition into Execution in FY 2025.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Office of the Secretary Of Defense **Date:** March 2024

<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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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
250: <i>Advanced Innovative Technologies</i>	6,596.780	1,116.024	1,085.826	994.226	-	994.226	1,022.712	1,044.364	1,061.162	1,083.450	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Strategic Capabilities Office (SCO) develops, demonstrates, and transitions operationally impactful capabilities and effects to shape and counter emerging threats and increase the lethality of the Joint Force in contested environments. The SCO combines innovation with concepts of operation and information management to develop novel capabilities 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 2023	FY 2024	FY 2025
<p><b>Title:</b> Advanced Innovative Technologies Project Management</p> <p><b>Description:</b> SCO has a small, WHS-funded, government civilian workforce, and relies on this project to fund the required additional labor for subject matter experts and programmatic support teams to help centrally manage the execution of the SCO prototype development portfolio. This project funds the travel for government employees and salaries for detailed staff, Inter-governmental Personnel Act participants, and Systems Engineering and Technical Assistance (SETA) contract staff that manage SCO's projects, studies, and test support. This staff annually supports 20-24 prototype project teams, the on-going study and development of additional concepts, and the office support functions like: program security representatives, intelligence, Information Technology, and finance and accounting support staff required to enable the project teams.</p> <p><b>FY 2024 Plans:</b> These funds provide for SCO labor and travel to support the 20-24 project teams that are active each fiscal year.</p> <p><b>FY 2025 Plans:</b> These funds provide for SCO labor and travel to support the 20-24 project teams that are active each fiscal year.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Increase from FY 2024 to FY 2025 is due to inflation of SETA support contract costs.</p>	48.476	51.289	53.975
<p><b>Title:</b> Asgard</p> <p><b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2025 Plans:</b></p>	-	-	45.000

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Asgard enters the prototyping phase in FY 2025.				
<b>Title:</b> Avatar		11.151	-	-
<b>Description:</b> 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. The project will be completed with FY 2023 funding.				
<b>Title:</b> Bedlam		1.685	13.815	10.500
<b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The change is consistent with the planned project phasing which is available at higher classification levels.				
<b>Title:</b> Black Hole Sun		-	8.200	24.400
<b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The change is consistent with the planned project phasing which is available at higher classification levels.				
<b>Title:</b> Classified Projects		546.338	516.263	247.120

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</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 2024 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 2025 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 2024 to FY 2025 Increase/Decrease Statement:</b> The change is consistent with the planned projects phasing which are available at higher classification levels.</p>				
<p><b>Title:</b> Complete Pivot</p> <p><b>Description:</b> Complete Pivot develops and demonstrates 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. The project will be completed with FY 2023 funding.</p>		2.830	-	-
<p><b>Title:</b> Eclipse</p> <p><b>Description:</b> The Eclipse project accelerates the maturation and fielding of emerging disruptive technologies. Specific applications and detailed plans are available at a higher classification level. The project will be completed with FY 2024 funding.</p> <p><b>FY 2024 Plans:</b> Project is completed in first quarter of FY 2024.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Project is complete.</p>		10.816	0.684	-
<p><b>Title:</b> Emerging Opportunities</p> <p><b>Description:</b> Implementation of small new capabilities or augmentations as a result of latest intelligence and threats analysis. Highest impact projects will be selected in the execution year based upon the most recent intelligence to accelerate capabilities by up to 2 years.</p> <p><b>FY 2024 Plans:</b> Opportunities will be selected during the execution year.</p> <p><b>FY 2025 Plans:</b></p>		13.900	11.500	11.600

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Opportunities will be selected during the execution year.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> FY 2025 budget remains consistent with original plan for FY 2024 with minor increases due to inflationary growth.				
<b>Title:</b> Equinox		-	8.800	28.800
<b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The change is consistent with the planned project phasing which is available at higher classification levels.				
<b>Title:</b> Galaxian		10.750	13.450	10.800
<b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The change is consistent with the planned project phasing which is available at higher classification levels.				
<b>Title:</b> Gollum		-	4.300	24.300
<b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 Plans:</b>				

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The change is consistent with the planned project phasing which is available at higher classification levels.</p>			
<p><b>Title:</b> Hailstone</p> <p><b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Home Alone enters the prototyping phase in FY 2025.</p>	-	-	26.000
<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 classified nature of this project, specific applications and detailed plans are available at a higher classification.</p> <p><b>FY 2024 Plans:</b> The project will be completed with FY 2024 funding.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The project is completed in FY 2024.</p>	12.500	2.400	-
<p><b>Title:</b> Hurt Locker</p> <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 2024 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2025 Plans:</b></p>	47.075	31.000	36.000

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The change is consistent with the planned project phasing which is available at higher classification levels.				
<b>Title:</b> Hypervelocity Gun Weapon System (HGWS) <b>Description:</b> Cost-effective, large magazine small area defense will be demonstrated by closing the fire control loop between sensors and prototype projectiles launched from existing families of powder gun cannons. Due to the nature of this project, specific applications and detailed plans are available at a higher classification level. <b>FY 2024 Plans:</b> The HGWS project will build multiple complete prototypes for testing and demonstration, including advanced threat engagement testing, to prepare for and support a Department transition and acquisition decision. <b>FY 2025 Plans:</b> The HGWS project will complete activities to support Army testing and evaluation for a Department transition and acquisition decision. <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The change supports the completion of the HGWS project activities.		108.145	194.300	165.075
<b>Title:</b> Kenobi <b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level. <b>FY 2024 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level. <b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level. <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The change is consistent with the planned project phasing which is available at higher classification levels.		35.550	56.400	43.000
<b>Title:</b> Lazarus <b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.		-	-	50.600

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p><b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Lazarus enters the prototyping phase in FY 2025.</p>				
<p><b>Title:</b> Mission Support Infrastructure</p> <p><b>Description:</b> These funds provide facility and information technology support costs for the Strategic Capabilities Office. Costs include: building lease payments, utilities, upkeep and refurbishment; physical security; supplies, office furnishings and communications equipment; video teleconferencing suites across multiple security levels; and information technology hardware systems and software licenses across multiple levels of security for the entire SCO staff.</p> <p><b>FY 2024 Plans:</b> SCO is gradually migrating away from its dependence on DARPA for its information technology. In FY 2024 SCO will migrate it's TS/SCI network from DARPA JWICS Network (DJN) to DIA's Common Operations Environment (COE). Additionally, SCO will investigate suitable options for Special Access Program (SAP) data and plan the migration from SAV.</p> <p>SCO, and all other 4th Estate agencies, have been directed to use DISA DoDNET for both unclassified and secret network communications. In FY 2024 SCO will initiate the migration planning with DISA for DoDNET-U and DoDNET-S.</p> <p>SCO will continue to replace outdated and obsolete laptop, desktop, and iPhone endpoints for the remainder of SCO staff and provide help desk services for all classified and unclassified networks.</p> <p><b>FY 2025 Plans:</b> SCO is planning on two significant system migrations in FY 2025. Firstly, SCO will start using DISA DoDNET and must fund both the continued use of DARPA DMSS and DSN while also paying DISA for newly deployed services. Secondly, SCO is planning the migration of its SAP system from SAV to a cloud-based service in FY 2025 and will have higher than normal costs through the transition. Once the migration away from DMSS, DSN, and SAV is complete continued payment to DARPA will only be for the DSWAN system.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The increase from FY 2024 to FY 2025 is due to two significant system migrations for unclassified, secret, and SAP information systems.</p>		17.880	18.100	23.000
<b>Title:</b> Oculus Prime		0.000	0.000	19.100

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p><b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2024 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Raven enters the prototyping phase in FY 2025.</p>			
<p><b>Title:</b> Pele</p> <p><b>Description:</b> 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><b>FY 2024 Plans:</b> Complete necessary work to receive Department of Energy approval of the Final Safety Analysis Report (FSAR). Manufacture major reactor components and prepare to complete the reactor build and integration testing in early FY 2025. Complete fabrication of the HALEU TRISO particles and compacts for the reactor core. The project will continue to support BWXT in seeking regulatory approval for U.S. highway transportation of the post-operation reactor. Pele will facilitate and support the development of requirements for future Service transition, and training of operators to support prototype testing at INL. Survivability testing will continue, with specific tests and details available at a higher classification level.</p> <p><b>FY 2025 Plans:</b> Assemble the four Pele modules. Achieve certification of the final reactor module so that it is eligible for a flight on a C-17. Fabricate the necessary hardware (e.g. concrete pads) at the test site at Idaho National Labs (INL) to prepare for the arrival of the fully fueled reactor. Acquire temporary trailers and all other infrastructure necessary to support initial operations of the Pele reactor. Initial operators will begin training in Pele simulator. The SCO team will continue to support BWXT in its regulatory work with NRC in support of future transport on public highways. SCO will also support the development of requirements for a potential Service transition. Survivability testing will continue, with specific tests and details available at a higher classification level.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b></p>	130.500	85.200	83.800

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
The decrease of \$45.3 million supports a development cycle with the Pele reactor delivered in FY 2025.			
<p><b>Title:</b> Point Break</p> <p><b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2024 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The project will be completed with FY 2024 funds.</p>	39.700	21.500	-
<p><b>Title:</b> Providence</p> <p><b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2024 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The change is consistent with the planned project phasing which is available at higher classification levels.</p>	8.525	13.125	13.000
<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 classified nature of this project, specific applications and detailed plans are available at a higher classification. The project will be completed with FY 2023 funds.</p>	0.953	-	-
<p><b>Title:</b> Rolling Dice</p> <p><b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.</p> <p><b>FY 2025 Plans:</b></p>	-	-	23.600

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Rolling Dice enters the prototyping phase in FY 2025.				
<b>Title:</b> Scornful Mustang		-	5.400	27.000
<b>Description:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2025 Plans:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The change is consistent with the planned project phasing which is available at higher classification levels.				
<b>Title:</b> Shawshank		9.250	-	-
<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. The project will be completed with FY 2023 funds				
<b>Title:</b> Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR)		-	30.100	27.556
<b>Description:</b> Each year, 3.2% of SCO's extramural R&D budget is transferred to the Department's SBIR program to fund small businesses through the SBIR program. An additional 0.45% of SCO's extramural R&D budget is transferred for the STTR program. This project is a placeholder for the budget prior to transfer, based upon SCO's estimated share of extramural research and development.				
<b>FY 2024 Plans:</b> Estimated transfer based upon planned extramural research and development funding.				
<b>FY 2025 Plans:</b> Estimated transfer based upon planned extramural research and development funding.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Change reflects change in planned extramural research and development funding				
<b>Accomplishments/Planned Programs Subtotals</b>		1,056.024	1,085.826	994.226

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**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Office of the Secretary Of Defense **Date:** March 2024

<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 2023	FY 2024
<b>Congressional Add:</b> Pele Mobile Nuclear Microreactor <b>FY 2023 Accomplishments:</b> FY 2023 Plans are shown under Project Pele above.	17.000	-
<b>Congressional Add:</b> Pele Second Source <b>FY 2023 Accomplishments:</b> Modify and develop design of a second micro nuclear reactor able to generate 1-5 MW of electric power meeting safety, legal, and regulatory requirements for military applications. This reactor will be designed to be complementary to the Pele reactor whose fabrication is already underway, with greater power levels and lower costs per unit energy sought, in exchange for decreased mobility.	20.000	-
<b>Congressional Add:</b> Seaman's Eye <b>FY 2023 Accomplishments:</b> Seaman's Eye will develop new projects to support autonomous mission and navigation planning .	8.000	-
<b>Congressional Add:</b> Service Tactical Signal Intelligence Upgrades <b>FY 2023 Accomplishments:</b> Due to the classified nature of this project, specific applications and details are available at a higher classification level.	10.000	-
<b>Congressional Add:</b> LIDAR C-UAS automated target Recognition <b>FY 2023 Accomplishments:</b> Under development	5.000	-
<b>Congressional Adds Subtotals</b>	60.000	-

**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 2025 Office of the Secretary Of Defense** **Date:** March 2024

<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 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Asgard	Various	Various : Various	-	-	-	-	-	45.000	-	-	-	45.000	157.000	202.000	-
Avatar	Various	Various : Various	257.288	11.151	-	-	-	-	-	-	-	-	0.000	268.439	-
Bedlam	Various	Various : Various	-	11.685	-	13.815	-	10.500	-	-	-	10.500	0.000	36.000	-
Black Hole Sun	Various	Various : Various	-	-	-	8.200	-	24.400	-	-	-	24.400	18.900	51.500	-
Classified Projects	Various	Various : Various	853.202	546.338	-	516.263	-	247.120	-	-	-	247.120	Continuing	Continuing	-
Complete Pivot	Various	Various : Various	30.897	2.830	-	-	-	-	-	-	-	-	0.000	33.727	-
Eclipse	Various	Various : Various	61.841	10.816	-	0.684	-	-	-	-	-	-	0.000	73.341	-
Emerging Opportunities	Various	Various : Various	-	13.900	-	11.500	-	11.600	-	-	-	11.600	Continuing	Continuing	-
Equinox	Various	Various : Various	-	-	-	8.800	-	28.800	-	-	-	28.800	15.500	53.100	-
Galaxian	Various	Various : Various	-	10.750	-	13.450	-	10.800	-	-	-	10.800	1.000	36.000	-
Gollum	Various	Various : Various	-	-	-	4.300	-	24.300	-	-	-	24.300	20.500	49.100	-
Hailstone	Various	Various : Various	-	-	-	-	-	26.000	-	-	-	26.000	11.000	37.000	-
Hoover	Various	Various : Various	261.904	12.500	-	2.400	-	-	-	-	-	-	0.000	276.804	-
Hurt Locker	Various	Various : Various	195.392	47.075	-	31.000	-	36.000	-	-	-	36.000	108.000	417.467	-
HGWS	Various	Various : Various	802.636	108.145	-	194.300	-	165.075	-	-	-	165.075	0.000	1,270.156	-
Kenobi	Various	Various : Various	-	35.550	-	56.400	-	43.000	-	-	-	43.000	14.750	149.700	-
Lazarus	Various	Various : Various	-	-	-	-	-	50.600	-	-	-	50.600	104.250	154.850	-
Oculus Prime	Various	Various : Various	-	-	-	-	-	19.100	-	-	-	19.100	131.900	151.000	-
Pele	Various	Various : Various	250.000	147.500	-	85.200	-	83.800	-	-	-	83.800	41.200	607.700	-
Point Break	Various	Various : Various	28.600	39.700	-	21.500	-	-	-	-	-	-	0.000	89.800	-
Providence	Various	Various : Various	-	8.525	-	13.125	-	13.000	-	-	-	13.000	3.500	38.150	-
Quiet Riot	Various	Various : Various	24.933	0.953	-	-	-	-	-	-	-	-	0.000	25.886	-
Rolling Dice	Various	Various : Various	-	-	-	-	-	23.600	-	-	-	23.600	81.400	105.000	-
Scornful Mustang	Various	Various : Various	-	-	-	5.400	-	27.000	-	-	-	27.000	105.200	137.600	-
Shawshank	Various	Various : Various	188.697	9.250	-	-	-	-	-	-	-	-	0.000	197.947	-
Completed Projects	Various	Various : Various	3,572.925	-	-	-	-	-	-	-	-	-	Continuing	Continuing	-
Seaman's Eye	Various	Various : Various	3.000	8.000	-	-	-	-	-	-	-	-	0.000	11.000	-
Pele Second Source	Various	Various : Various	-	20.000	-	-	-	-	-	-	-	-	0.000	20.000	-

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Office of the Secretary Of Defense** **Date:** March 2024

<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 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
LIDAR C-UAS ATR	Various	Various : Various	-	5.000		-		-		-		-	0.000	5.000	-
<b>Subtotal</b>			6,531.315	1,049.668		986.337		889.695		-		889.695	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Mission Support Infrastructure	Option/ Various	Facility and IT support to SCO : Chantilly VA, Arlington VA	12.307	17.880		18.100		23.000		-		23.000	Continuing	Continuing	-
SBIR/STTR	Various	SBIR/STTR transfer funds : Various	-	-		30.100		27.556		-		27.556	Continuing	Continuing	-
<b>Subtotal</b>			12.307	17.880		48.200		50.556		-		50.556	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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 Innovative Technologies Project Management	Option/ Various	Labor and Travel : Various	53.158	48.476		51.289		53.975		-		53.975	Continuing	Continuing	-
<b>Subtotal</b>			53.158	48.476		51.289		53.975		-		53.975	Continuing	Continuing	N/A

			Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			6,596.780	1,116.024	1,085.826	994.226	-	994.226	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2025 Office of the Secretary Of Defense		<b>Date:</b> March 2024
<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>

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
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>Asgard</b>																										
Product Development																										
<b>Avatar</b>																										
Product Development																										
<b>Bedlam</b>																										
Product Development																										
<b>Black Hole Sun</b>																										
Product Development																										
<b>Classified Projects</b>																										
Product Development																										
<b>Complete Pivot</b>																										
Product Development																										
<b>Eclipse</b>																										
Product Development																										
<b>Equinox</b>																										
Product Development																										
<b>Galaxian</b>																										
Product Development																										
<b>Gollum</b>																										
Product Development																										
<b>Hailstone</b>																										
Product Development																										
<b>Hoover</b>																										
Product Development																										

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2025 Office of the Secretary Of Defense **Date:** March 2024

<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 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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>Hurt Locker</b>																												
Product Development																												
<b>Hypervelocity Gun Weapons System (HGWS)</b>																												
Product Development																												
<b>Kenobi</b>																												
Product Development																												
<b>Lazarus</b>																												
Product Development																												
<b>Oculus Prime</b>																												
Product Development																												
<b>Pele</b>																												
Product Development																												
<b>Point Break</b>																												
Product Development																												
<b>Providence</b>																												
Product Development																												
<b>Quiet Riot</b>																												
Product Development																												
<b>Rolling Dice</b>																												
Product Development																												
<b>Scornful Mustang</b>																												
Product Development																												
<b>Shawshank</b>																												
Product Development																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Office of the Secretary Of Defense		<b>Date:</b> March 2024
<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><i>Asgard</i></b>				
Product Development	1	2025	4	2028
<b><i>Avatar</i></b>				
Product Development	1	2023	4	2024
<b><i>Bedlam</i></b>				
Product Development	1	2023	4	2026
<b><i>Black Hole Sun</i></b>				
Product Development	1	2024	4	2027
<b><i>Classified Projects</i></b>				
Product Development	1	2023	4	2027
<b><i>Complete Pivot</i></b>				
Product Development	1	2023	4	2024
<b><i>Eclipse</i></b>				
Product Development	1	2023	4	2024
<b><i>Equinox</i></b>				
Product Development	1	2024	4	2027
<b><i>Galaxian</i></b>				
Product Development	1	2023	4	2026
<b><i>Gollum</i></b>				
Product Development	1	2024	4	2027
<b><i>Hailstone</i></b>				
Product Development	1	2025	4	2027

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2025 Office of the Secretary Of Defense **Date:** March 2024

<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	2023	4	2024
<b><i>Hurt Locker</i></b>				
Product Development	1	2023	4	2028
<b><i>Hypervelocity Gun Weapons System (HGWS)</i></b>				
Product Development	1	2023	4	2026
<b><i>Kenobi</i></b>				
Product Development	1	2023	4	2027
<b><i>Lazarus</i></b>				
Product Development	1	2025	4	2028
<b><i>Oculus Prime</i></b>				
Product Development	1	2024	4	2029
<b><i>Pele</i></b>				
Product Development	1	2023	4	2026
<b><i>Point Break</i></b>				
Product Development	1	2023	4	2025
<b><i>Providence</i></b>				
Product Development	1	2023	4	2027
<b><i>Quiet Riot</i></b>				
Product Development	1	2023	4	2024
<b><i>Rolling Dice</i></b>				
Product Development	1	2025	4	2029
<b><i>Scornful Mustang</i></b>				
Product Development	1	2024	4	2027
<b><i>Shawshank</i></b>				

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Office of the Secretary Of Defense			<b>Date:</b> March 2024	
<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>		

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Product Development	1	2023	4	2024