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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Defense Advanced Research Projects Agency **Date:** April 2022

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605502E / <i>SMALL BUSINESS INNOVATION RESEARCH</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	-	109.867	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	-
SB-01: <i>SMALL BUSINESS INNOVATION RESEARCH</i>	-	109.867	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

In accordance with Public Law No: 116-92 (National Defense Authorization Act 2020) and the Small Business Act (15 U.S.C. 638), the DARPA Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs are designed to provide small, high-tech businesses and academic institutions the opportunity to propose radical, innovative, high-risk approaches to address existing and emerging national security threats, thereby supporting DARPA's overall strategy to enable fundamental discoveries and technological breakthroughs that provide new military capabilities.

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	0.000	0.000	0.000	-	0.000
Current President's Budget	109.867	0.000	0.000	-	0.000
Total Adjustments	109.867	0.000	0.000	-	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	109.867	0.000			

Change Summary Explanation

FY 2021: Increase reflects SBIR/STTR transfer.
 FY 2022: N/A
 FY 2023: N/A

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

	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>
Title: Small Business Innovation Research	109.867	0.000	0.000
Description: The Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs are			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>designed to provide small, high-tech businesses and academic institutions the opportunity to propose radical, innovative, high-risk approaches to address existing and emerging national security threats; thereby supporting DARPA's overall strategy to enable fundamental discoveries and technological breakthroughs that provide new military capabilities.</p> <p>FY 2022 Plans:</p> <ul style="list-style-type: none"> - Continue to utilize various funding pathways available to the SBIR/STTR programs. This includes, Phase I, Phase II, Direct to Phase II, co-funds, cross agency awards, Phase II Enhancements, and SBIR XL Pilot. - SBIR XL aims to increase opportunities for DARPA funded technology by reimagining SBIRs to transform ideas into successful small businesses that scale. The goals of SBIR XL include; (1) increase relevance of SBIR Program for Technology Development in DARPA; (2) emphasize transition and commercialization as part of evaluation process including establishment of concrete commercialization milestones; (3) raise award ceilings to support efforts for operation-scale deployment, increasing the probability of technology transition and commercialization; (4) decrease award timelines. - Topics will be developed and managed by DARPA and link to DoD OSD SBIR/STTR Key Technology Areas which include (1) Air Platforms; (2) Chemical / Biological Defense; (3) Information Systems Technology; (4) Ground and Sea Vehicles; (5) Materials / Processes; (6) Biomedical; (7) Sensors, Electronics and Electronic Warfare; (8) Space Platforms; (9) Human Systems; (10) Weapons; (11) Nuclear Technology; (12) Battlespace Environments. - DARPA will link wherever possible to the National Defense Strategy DoD Research, Technology & Laboratory Focus areas which include (1) 5G; (2) Artificial Intelligence (AI)/Machine Learning (ML); (3) Autonomy; (4) Biotechnology; (5) Cybersecurity; (6) Directed Energy (DE); (7) Hypersonics; (8) Microelectronics; (9) Networked Command, Control & Communication (C3); (10) Nuclear; (11) Quantum Science; (12) Space; (13) General Warfighting (GWR). <p>FY 2023 Plans:</p> <ul style="list-style-type: none"> - Continue to utilize various funding pathways available to the SBIR/STTR programs. This includes, Phase I, Phase II, Direct to Phase II, co-funds, cross agency awards, Phase II Enhancements, and SBIR XL Pilot. - SBIR XL aims to increase opportunities for DARPA funded technology by reimagining SBIRs to transform ideas into successful small businesses that scale. The goals of SBIR XL include; (1) increase relevance of SBIR Program for Technology Development in DARPA; (2) emphasize transition and commercialization as part of evaluation process including establishment of concrete commercialization milestones; (3) raise award ceilings to support efforts for operation-scale deployment, increasing the probability of technology transition and commercialization; (4) decrease award timelines. - Topics will be developed and managed by DARPA and link to DoD OSD SBIR/STTR Key Technology Areas which include (1) Air Platforms; (2) Chemical / Biological Defense; (3) Information Systems Technology; (4) Ground and Sea Vehicles; (5) Materials / Processes; (6) Biomedical; (7) Sensors, Electronics and Electronic Warfare; (8) Space Platforms; (9) Human Systems; (10) Weapons; (11) Nuclear Technology; (12) Battlespace Environments. 			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
- DARPA will link wherever possible to the National Defense Strategy DoD Research, Technology & Laboratory Focus areas which include (1) 5G; (2) Artificial Intelligence (AI)/Machine Learning (ML); (3) Autonomy; (4) Biotechnology; (5) Cybersecurity; (6) Directed Energy (DE); (7) Hypersonics; (8) Microelectronics; (9) Networked Command, Control & Communication (C3); (10) Nuclear; (11) Quantum Science; (12) Space; (13) General Warfighting (GWR).			
Accomplishments/Planned Programs Subtotals	109.867	0.000	0.000

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

N/A

Remarks

E. Acquisition Strategy

N/A