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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy **Date:** April 2022

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 3: Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603758N / <i>Navy Warfighting Exp & Demo</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	0.000	39.540	60.167	83.137	-	83.137	83.398	85.946	91.960	91.584	Continuing	Continuing
2918: <i>Navy Warfighting Experiments and Demo</i>	0.000	39.540	47.167	83.137	-	83.137	83.398	85.946	91.960	91.584	Continuing	Continuing
9999: <i>Congressional Adds</i>	0.000	0.000	13.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	13.000

A. Mission Description and Budget Item Justification

The Office of Naval Research (ONR) guides ongoing research in the pursuit of innovative, decisive capabilities for our Sailors and Marines. ONR manages a broad, but priority-driven investment portfolio of near to long-term basic and applied research. This Program Element (PE) addresses the development of recent Science and Technology (S&T) breakthroughs to meet current operational needs from a subscale proof-of-principle into a full-scale prototype for warfighter experimentation during laboratory and operational demonstrations including Fleet Battle Problems (FBP), Limited Objective Experiments (LOEs) and Fleet/Force exercises. The key aspects of this PE are divided into five areas supporting the continuum of S&T from discovery to delivery: (1) Naval Warfare Experimentation develops rapid prototypes and provides them to the warfighter for experimentation during operational demonstrations and exercises; (2) Operations Analysis provides the Navy and Marine Corps the means to identify capability needs that can be addressed with science and technology solutions and inform future investment; (3) SwampWorks develops and demonstrates newly invented or recently discovered technologies that address emergent and enduring operational problems in an accelerated timeframe; (4) TechSolutions develops rapid response science and technology prototypes addressing Fleet/Force needs identified by Sailors and Marines at the deckplate level; and (5) support for the Naval Precision Strike Operations, providing the Navy capability to quickly locate, target, and strike critical targets.

Today's Sailors and Marines are enabled by naval Science and Technology (S&T). Since 1946, the Office of Naval Research (ONR) has fostered scientific research related to the maintenance of maritime superiority and national defense. ONR manages the Department of the Navy's (DON) portfolio of naval Basic and Applied research, and Advanced Technology Development investments to ensure naval forces can effectively deter conflict, but when called upon, fight, win and come home safe. Current investments hedge against uncertainty, providing solutions to commanders today, and options for the future. The Naval S&T budget supports higher guidance defined by the National Defense Strategy, and responds to requirements identified by the Secretary of the Navy through research priorities set by the Chief of Naval Research, coordinated across the Naval Research Enterprise (NRE), and outlined in the Naval R&D Framework.

This Program Element (PE) funds Advanced Technology Development (ATD) that includes development of subsystems and components and efforts to integrate subsystems and components into system prototypes for field experiments and/or tests in a simulated environment. Efforts in this PE generally have Technology Readiness Levels (TRL) of 4 (component and/or breadboard validation in laboratory environment.), 5 (component and/or breadboard validation in relevant environment.), or 6 (system/subsystem model or prototype demonstration in a relevant environment).

Due to the number of efforts in this PE, the programs described herein are representative of the work included in this PE.

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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	40.591	47.167	0.000	-	0.000
Current President's Budget	39.540	60.167	83.137	-	83.137
Total Adjustments	-1.051	13.000	83.137	-	83.137
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	13.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.051	0.000			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	83.137	-	83.137

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

Project: 9999: *Congressional Adds*

Congressional Add: *Naval tech bridges*

Congressional Add: *ONR Scout*

	FY 2021	FY 2022
	0.000	5.000
	0.000	8.000
Congressional Add Subtotals for Project: 9999	0.000	13.000
Congressional Add Totals for all Projects	0.000	13.000

Change Summary Explanation

Funding: FY23 increase of \$26,127K supports increased investment in Naval Warfare Experimentation and Swampworks Activities. The increases is the result of the addition of specific international experimentation to support COMPACFLT PACIFIC DRAGON and COMSIXTHFLT FORMIDABLE SHIELD, in addition to the base portfolio of S&T Fleet Experimentation tied to major operational exercises. Additionally, Naval Rapid Innovation establishes advanced technology development funding to provide a means for maturing promising technologies emerging from the Novel Task Force/NOVMOD process.

Technical: See FY23 Plans and Accomplishments

Schedule: See FY23 Plans and Accomplishments

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

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy										Date: April 2022		
Appropriation/Budget Activity 1319 / 3					R-1 Program Element (Number/Name) PE 0603758N / Navy Warfighting Exp & Demo			Project (Number/Name) 2918 / Navy Warfighting Experiments and Demo				
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
2918: Navy Warfighting Experiments and Demo	0.000	39.540	47.167	83.137	-	83.137	83.398	85.946	91.960	91.584	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project focuses on the application of recent technology breakthroughs to meet current operational needs from a subscale proof-of-principle into a full-scale prototypes for warfighter experimentation during laboratory and operational demonstrations, Fleet Battle Problems (FBPs), Limited Objective Experiments (LOEs) and Fleet/Force exercises.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: Naval Warfare Experimentation	7.323	8.242	36.711	0.000	36.711
Articles:	-	-	-	-	-
<p>Description: The objective of this activity is to capitalize technology breakthroughs to develop and integrate components including subsystems into prototypes quickly. These technologies are provided to the warfighter for experimentation, field experiments, and/or tests in simulated or actual environments. The use of Navy Warfare Development Command (NWDC) Fleet Experimentation (FLEX) events is encouraged. The net results are knowledge that only an experiment can provide and that will inform future Science and Technology (S&T) development and transition of capabilities.</p> <p>An example of Naval Warfare Experimentation efforts is the Integrated Battle Problem 21 operational experiment in which ONR partnered with Pacific Fleet to insert approximately 29 unmanned systems into a large scale fleet environment and determine their ability to address key operational problems.</p> <p>FY 2022 Plans: Continue to maintain and leverage a Naval Research Enterprise (NRE) Experimentation and Analysis Opportunities catalogue to guide prioritized concept investigations in support of fleet/force needs and strategic S&T initiatives. Invest in operational experimentation such as tests, demonstrations, and large and small scale experimentation that will address emerging operational needs. Manage a NRE experimentation plan which will guide multi-year S&T experimentation efforts in response to emerging concepts and doctrine. Conduct early Technology Readiness Level concept investigations with Fleet and Force input to establish concept potential,</p>					

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Appropriation/Budget Activity 1319 / 3	R-1 Program Element (Number/Name) PE 0603758N / Navy Warfighting Exp & Demo	Project (Number/Name) 2918 / Navy Warfighting Experiments and Demo

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>and inform NRE investment decisions. Leverage experimentation as an excursion to traditional programs to address additional warfighter needs and/or mitigate capability delivery risk.</p> <p>FY 2023 Base Plans: Conduct international experimentation in support of COMPACFLT PACIFIC DRAGON and COMSIXTHFLT, FORMIDABLE SHIELD exercises. Continue to maintain and leverage a Naval Research Enterprise (NRE) experimentation opportunities to guide prioritized concept investigations in support of fleet/force needs and strategic S&T initiatives. Investing in operational experimentation such as tests, demonstrations, and large and small scale experimentation that will address emerging operational needs. Managing a NRE experimentation plan which will guide multi-year S&T experimentation efforts in response to emerging concepts and doctrine. Conduct early Technology Readiness Level concept investigations with Fleet and Force input to establish concept potential, and inform NRE investment decisions. Leverage experimentation as an excursion to traditional programs to address additional warfighter needs and/or mitigate capability delivery risk.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The increases from FY22 to FY23 is the result of the addition of specific international experimentation to support COMPACFLT PACIFIC DRAGON and COMSIXTHFLT FORMIDABLE SHIELD, in addition to the base portfolio of S&T Fleet Experimentation tied to major operational exercises. Additionally, Naval Rapid Innovation establishes advanced technology development funding to provide a means for maturing promising technologies emerging from the Novel Task Force/NOVMOD process.</p>					
<p>Title: Operations Analysis</p> <p align="right">Articles:</p> <p>Description: The objective of this project is to provide operational analysis through studies, analyses, gaming, modeling and simulation (M&S), and experimentation to identify Navy and Marine Corps capability needs that can be addressed with S&T solutions. The effort includes core analysis of Science and Technology (S&T) programs, military utility/capability gaps analyses, war gaming, structured experimentation events, the articulation of the results of that analysis and war gaming, and the development of innovation strategies and messages resulting from these analyses.</p> <p>An example of an Operations Analysis effort would be conducting the Fast Agile Naval Technology Munitions (FANTOM) Technology Innovation Game (TIG) with the Naval Warfare Development Command and</p>	0.783 -	3.871 -	4.114 -	0.000 -	4.114 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>representatives from the fleet, force, and NRE to determine where application of super-cavitating torpedo technology can have the most significant, near term impact on warfighting capability which allows the NRE to more accurately focus its S&T investments.</p> <p>Tactical Advancement for Next Generation (TANG) solves mission focused, human-centered challenges using innovation and design thinking methods. TANG initiatives tailor the research and solution generation methods to the respective topic and scope.</p> <p>FY 2022 Plans: Continue to conduct new workshops, commission studies, and conduct Concept of Employment and Concept of Operations investigations.</p> <p>Initiate TANG projects that solve mission focused, human-centered challenges using innovation and systems engineering methods for the Navy and United States Marine Corps (USMC).</p> <p>TANG will support discovery of trends, sharing lessons learned, and empowering the workforce to solve problems and build their agility skills by providing high-quality, low-friction training and support to equip commands with warfighter-centered fundamentals.</p> <p>FY 2023 Base Plans: Continue to conduct new workshops, commission studies, and conduct Concept of Employment and Concept of Operations investigations.</p> <p>Continue TANG projects that solve mission focused, human-centered challenges using innovation and systems engineering methods for the Navy and United States Marine Corps (USMC).</p> <p>TANG will support discovery of trends, sharing lessons learned, and empowering the workforce to solve problems and build their agility skills by providing high-quality, low-friction training and support to equip commands with warfighter-centered fundamentals.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p>					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

There is no significant funding change from FY 2022 to FY 2023.

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>Title: Swampworks</p> <p align="right">Articles:</p> <p>Description: Description: The SwampWorks portfolio responds to opportunities for rapid and disruptive technologies to meet urgent warfighter needs, and addresses technology and sailor performance issues identified during experiments, exercises, and demonstrations.</p> <p>SwampWorks explores high-risk, disruptive, and innovative technologies and concepts that advance naval warfighter's capabilities. The program has substantial programmatic flexibility and is not limited to any set of technology areas. Ultimately, the goal is to provide a dramatic improvement for the warfighter at a rapid pace. Some of these technologies may become part of a follow-on technology development, may end up in the hands of the warfighter for Fleet/ Force experimentation, or may culminate in a significant Fleet/Force exercise that demonstrates capability that transitions into the Acquisition Program of Record (POR).</p> <p>The Naval Agility Cell (NavalX) group assist in TECHDEV selection within Swampworks. NavalX builds an agile, collaborative, and connected Naval network via regional Technology Bridges (Tech Bridges) to pursue high-risk, disruptive, and innovative technologies and concepts that advance naval warfighter's capabilities.</p> <p>Also funded in this activity is the Next System Technology Evaluation Program (NextSTEP), which promotes innovation and entrepreneurial opportunities for naval personnel and student veterans through advanced technology development and demonstration projects at naval facilities and laboratories.</p> <p>FY 2022 Plans: Complete Digital Twin for USS JOHN F. KENNEDY (CVN 79) Advanced Weapons Elevator. Continue development of Quantum Gravimeter Navigation System. The remaining Science and Technology (S&T) projects that started in FY21 was identified during FY21 as emerging warfighters needs are realized. Swampworks projects will continue to be aligned with National Defense Strategy, OSD Modernization Priorities and CNO / CMC Guidance.</p> <p>FY 2023 Base Plans: Complete development of the Quantum Gravimeter Navigation System. The remaining Science and Technology (S&T) projects that start in FY22 will be identified during FY22 as emerging warfighters needs are realized. SwampWorks projects will continue to be aligned with National Defense Strategy, OSD Modernization Priorities</p>	14.500	17.316	24.299	0.000	24.299
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>and CNO / CMC Guidance. Apply the NavalX Innovation pipeline concept to source, curate, scan, incubate, prototype, validate, field and sustain new technologies to accelerate the discovery, development of new technologies and capabilities for naval warfighters.</p> <p>NavalX will continue to support discovery of trends, sharing lessons learned, and empowering the workforce to solve problems and build their agility skills by providing high-quality, low-friction training and support to equip commands with warfighter-centered fundamentals.</p> <p>Tech Bridge will support regional technology innovation challenges addressing critical Naval mission problems; increase participation of small- and medium-sized business in the defense industrial base; produce and deliver dual-use prototypes in partnership with the local/regional commercial sector, and support regional operational experimentation events. Tech Bridges are an ASN(RDA) initiative under NavalX and sponsored by ONR. Currently, fourteen Tech Bridges have been established across the U.S. plus one in London with the mission to promote regional/local collaborations in support of DON and national security missions. While each Tech Bridge may focus on their specific local/regional challenges and opportunities, they all work together as a Tech Bridge network to share best practices and support each other's mission.</p> <p>Next Strategic Technology Evaluation Program (NextSTEP) projects will focus on assessing advanced energy technologies, developing cyber-physical security for energy networks, and utilizing autonomous systems, artificial intelligence and advanced manufacturing to address operational and installation challenges in logistics, readiness, and resilience. NextSTEP (previously Energy Systems Technology Evaluation Program (ESTEP)) is a prototype viability assessment program at naval facilities that promotes adoption, scaling and deployment to the warfighter of defense and dual-use technologies with the following goals: conduct advanced technology demonstrations to evaluate emerging technologies using Navy and Marine Corps operations as test beds; evaluate and de-risk new prototype technologies to help enable their acquisition and adoption; and provide opportunities for professional development for DON personnel and student veteran interns through project participation.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The increase from FY22 to FY23 of \$6,983K is a result of an increased number of Tech Bridge technology innovation challenges for small- and medium-size businesses; expanded prototyping capabilities at each Tech</p>					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Bridge; and the realignment of ESTEP from PE 0603123N Project 2912/Force Protection Advanced Technology to NextSTEP in PE 0603758N Project 2918, while maintaining a constant budget of \$5,000K per year.						
Title: Tech Solutions		4.933	5.151	5.263	0.000	5.263
Articles:		-	-	-	-	-
Description: TechSolutions develops rapid response Science and Technology (S&T) solutions to immediate Fleet/Force needs identified by individual Sailors at the deckplate level and Marines in the field. TechSolutions links warfighters to the science and technology community to develop needed technologies as quickly as possible. Sailors and Marines submit their ideas anytime via the TechSolutions web portal. New projects are initiated annually directly from such requests and a prototype solution is developed collaboratively with the warfighter for delivery within 12 months.						
Examples of technology requests last year included COVID-19 responses for 1) an additively manufactured facemask with reusable/replaceable filtration media to overcome limited supplies of facemasks during the early response to the pandemic, and 2) development of ship husbanding technology to collect and track COVID-19 test results for Naval strike group personnel in order to mitigate the spread of COVID-19 and give strike group commanders situational awareness on the COVID-19 health status of their personnel. Additionally, in response to a request from Marines, TechSolutions delivered an interactive, web-based, serious game that teaches the principles of energy management and logistics so users can gain an understanding and intuition of the trade-offs in energy distribution and logistics planning.						
FY 2022 Plans: TechSolutions will continue to conduct new Science and Technology (S&T) developments based on Fleet/Force interactions and expressed warfighter needs. The program will be readily available to support the mission of the fleet by responding to Sailors/Marines need for technology. Developments will be undertaken to deliver rapid response solutions so warfighters can achieve mission success and perform their duties safer, more effectively and more efficiently by leveraging technology that has recently been developed or is emergent. Demonstrations will be conducted with warfighters at the conclusion of developments to assess the utility of the technology and understand what steps remain to achieve transition.						
FY 2023 Base Plans:						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>TechSolutions will continue to conduct new Science and Technology (S&T) developments based on Fleet/Force interactions and expressed warfighter needs. Developments will be undertaken to deliver rapid response solutions so warfighters can achieve mission success and perform their duties more effectively and more efficiently by leveraging new or emergent technology.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: There is no significant change from FY 2022 to FY 2023.</p>					
<p>Title: Precision Strike Technology</p> <p align="right">Articles:</p> <p>Description: Efforts in this area support Naval Precision Strike Operations, providing the Navy capability to quickly locate, target, and strike critical targets. Ongoing efforts include conducting kill-chain studies to identify and recommend engineering trades to enable weapon system interoperability and data fusion alternatives. These studies assess engineering feasibility of various kill-chain options and assess the capability provided. Classified addendum includes further program details.</p> <p>FY 2022 Plans: Continue efforts in the area supporting Naval Precision Strike Operations, providing the Navy capability to quickly locate, target, and strike critical targets. Ongoing efforts include conducting kill-chain studies to identify and recommend engineering trades to enable weapon system interoperability and data fusion alternatives. These studies assess engineering feasibility of various kill-chain options and assess the capability provided. Conduct efforts to refine technologies and techniques that fluidly combine surveillance electronic warfare with communications and electronics in support of current and predicted capability requirements to clearly understand and shape the EW battlespace.</p> <p>FY 2023 Base Plans: Continue efforts in the area supporting Naval Precision Strike Operations, providing the Navy capability to quickly locate, target, and strike critical targets. Ongoing efforts include conducting kill-chain studies to identify and recommend engineering trades to enable weapon system interoperability and data fusion alternatives.</p>	12.001	12.587	12.750	0.000	12.750
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
These studies assess engineering feasibility of various kill-chain options and assess advanced weapon system capabilities. FY 2023 OCO Plans: N/A FY 2022 to FY 2023 Increase/Decrease Statement: There is no significant change from FY 2022 to FY 2023.					
Accomplishments/Planned Programs Subtotals	39.540	47.167	83.137	0.000	83.137

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

Remarks

D. Acquisition Strategy
Not applicable.

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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
9999: <i>Congressional Adds</i>	0.000	0.000	13.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	13.000
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Congressional Interest Items not included in other Projects.

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

	FY 2021	FY 2022
Congressional Add: Naval tech bridges <i>FY 2021 Accomplishments:</i> N/A <i>FY 2022 Plans:</i> Conduct experiments and demonstrations supporting Naval technology bridges efforts	0.000	5.000
Congressional Add: ONR Scout <i>FY 2021 Accomplishments:</i> N/A <i>FY 2022 Plans:</i> Conduct ONR Scout experiments and demonstrations	0.000	8.000
Congressional Adds Subtotals	0.000	13.000

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

N/A

Remarks

D. Acquisition Strategy

N/A