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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Navy **Date:** May 2021

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 8: Software and Digital Technology Pilot Programs</i>	R-1 Program Element (Number/Name) PE 0608013N / <i>RISK MANAGMENT INFO - SOFTWARE PILOT PROGRAM</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	0.000	0.000	13.924	13.703	-	13.703	-	-	-	-	-	-
2901: <i>Navy Enterprise IT</i>	0.000	0.000	13.924	13.703	-	13.703	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Section 872 of the National Defense Authorization Act (NDAA) for FY 2018 (P.L. 115-91) directed the Secretary of Defense to task the Defense Innovation Board (DIB) to undertake a study on "streamlining [the Department's] software development and acquisition regulations." The Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)) submitted the final report to Congress in May 2019. The DIB's report made recommendations aimed at transforming the way the Department acquires, develops, and deploys software and manages digital talent. The DIB encouraged the creation of a "new appropriation category for software capability delivery that allows (relevant types of) software to be funded as a single budget item, with no separation between RDT&E, production and sustainment." The recommendation stemmed from the DIB's observation that current law, regulations, and policies (including those governing program funding and appropriations) treat software acquisition and development as a series of discrete, sequential steps; and that this approach is at odds with modern software, which is continuously updated to provide new functionality. This program has been designated as a Software and Digital Technology Pilot Program by the Secretary of Defense or the explanatory statement regarding this Act. The funding in this line is requested to be used for expenses necessary for agile procurement, production, modification and operation and maintenance of the pilot program requirements.

The Risk Management Information (RMI) software pilot program is a consolidation of DON risk management requirements into a single Program of Record (POR) to provide modern safety reporting and management capabilities for both active and reserve Navy and Marine Corps commands. RMI enables agile responses to business rule changes, automation of routine actions, improved data integrity, and facilitates self-service for organizations and individuals. RMI is being developed in three increments of capabilities: Streamlined Incident Reporting (SIR), Safety Program Management (SPM), and Analysis & Dissemination (A&D). A fourth requirement, Portal integration, will be accomplished as part of the development of the three RMI increments since each will be built on the same Commercial Off The Shelf (COTS) platform. Each of these capabilities will be acquired as individual Abbreviated Acquisition Programs using an incremental development approach for reengineered business processes, while consolidating five legacy systems Web-Enabled Safety System (WESS), Enterprise Safety Application Management Systems (ESAMS), Portsmouth Occupational Accident and Illness Reporting System (POAIRS), Medical Mishap and Compensation (MMAC), and Injury Tracker (INJTRK).

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B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	0.000	14.300	14.355	-	14.355
Current President's Budget	0.000	13.924	13.703	-	13.703
Total Adjustments	0.000	-0.376	-0.652	-	-0.652
• Congressional General Reductions	-	-0.376			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	-0.177	-	-0.177
• Rate/Misc Adjustments	0.000	0.000	-0.475	-	-0.475

Change Summary Explanation

Funding: The net decrease of \$221K is due to a shift in requirements as sustainment efforts continue to increase as SIR, SPM and A&D move towards sustainment and development efforts continue to decrease as modules deploy.

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Appropriation/Budget Activity 1319 / 8					R-1 Program Element (Number/Name) PE 0608013N / RISK MANAGMEMENT INF O - SOFTWARE PILOT PROGRAM				Project (Number/Name) 2901 / Navy Enterprise IT			
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
2901: Navy Enterprise IT	0.000	0.000	13.924	13.703	-	13.703	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The RMI program is a consolidation of DON risk management requirements into a single Program of Record (POR) to provide modern safety reporting and management capabilities for both active and reserve Navy and Marine Corps commands. RMI enables agile responses to business rule changes, automation of routine actions, improved data integrity, and facilitates self-service for organizations and individuals.

RMI is being developed in three increments of capabilities: Streamlined Incident Reporting (SIR), Safety Program Management (SPM), and Analysis & Dissemination (A&D). A fourth requirement, Portal integration, will be accomplished as part of the development of the three RMI increments since each will be built on the same Commercial Off The Shelf (COTS) platform. Each of these capabilities will be acquired as individual Abbreviated Acquisition Programs using an incremental development approach for reengineered business processes, while consolidating five legacy systems Web-Enabled Safety System (WESS), Enterprise Safety Application Management Systems (ESAMS), Portsmouth Occupational Accident and Illness Reporting System (POAIRS), Medical Mishap and Compensation (MMAC), and Injury Tracker (INJTRK).

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Risk Management Information (RMI) - Development	0.000	6.134	4.271	0.000	4.271
Articles:	-	-	-	-	-
FY 2021 Plans: FY21 funding continues the development of Risk Management Information (RMI) Safety Program Management (SPM) capability for use ashore and afloat. The focus of SPM is to develop a system that increases the SPM capability for a material solution in full compliance with DoD and occupational health standards and policies, safety incident reporting, and incident data capture.					
The SPM program establishes subject matter expertise teams to create SPM modules that satisfy the requirements as set forth in the Functional Requirements Document (FRD). Critical to the FY21 success is the subject matter experts (Navy and Marine Corps from all chain of command levels, ashore and afloat) defining the use cases for each of the SPM modules that identifies the sequence of events, interdependencies and relationships across the modules. The subject matter experts further establish detailed requirements to support the development of SPM modules,					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>(approximate total 11) resulting in design specifications, updated business processes, training curriculum and testing criteria for developers to create the frontend SPM application.</p> <p>In FY21, RMI also creates an SPM architecture that integrates the SPM modules into an Enterprise Data Warehouse (Analysis and Dissemination) that facilitates increased business efficiency by implementing logical business flow and connected beginning-to-end reporting structures and tool sets. The data warehouse provides a "data lake" construct enhancing the Navy's predictive analytics capability resulting in the identification of contributing factors to safety events. These factors serve as leading indicators for users to identify and mitigate safety-related risk factors.</p> <p>Three incremental deployments to projected completion of Enterprise Data Warehouse (Analysis and Dissemination) scheduled for completion in FY21 have been extended into FY22. Final Increment 3 deployment foundation is a partnership between NAVSAFECEN and Army Analytics Group (AAG) - parallel and complementary efforts.</p> <p>SIR Release 1 was completed 31 August 2020 and SIR release 2 was completed December 2020.</p> <p>FY 2022 Base Plans: FY22 funding will be used to continue developing the Risk Management Information (RMI) Analysis and Dissemination (A&D), Safety Program Management (SPM), and the Afloat capability.</p> <p>A&D: The program will develop an A&D capability that provides essential actionable insights into data collected through all RMI capabilities, leveraging the Enterprise Data Warehouse (EDW) as the single validated data source. A&D provides an analytical capability for data subsumed under RMI, which will enable trend analysis and predictive decision making capabilities. Once the environment to support A&D is developed, it will provide Naval Safety Data Scientists with a Business Intelligence (BI) capability, as well as enhanced self-service reporting and data visualization through dashboards.</p> <p>SPM: SPM module development and deployment will continue, providing users with capabilities needed for planning, preparing and executing a safety and occupational health program. Specific module capabilities include: Inspections, Hazard Abatement, Confined Space Entry, Fall Protection, Safety Committee, Operational Risk</p>					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>Management, Self-Assessment, Job Hazard Analysis, Medical Surveillance, Respiratory Protection, and Training. These features promote mishap/injury avoidance in compliance with DoD Safety and occupational health standards and policy.</p> <p>Afloat Capability: The program will engage subject matter experts from the Navy, Marine Corps, and Air Force to harden ashore and Afloat requirements definition, engaging in the analysis and design activities necessary to define an Afloat capability that will support personnel deployed in Disconnected, Intermittent, Low Bandwidth environments. Afloat is an overarching capability that has relevance to all RMI increments, supplying afloat and expeditionary personnel risk management data to inform real-time Naval safety management decision making, while operating in DIL environments.</p> <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Deployment of SPM modules and SIR capability has reduced the contract development requirement in FY22 by \$1,863K. Contracted efforts are now focused more heavily on sustainment of deployed capability.</p>					
<p>Title: Risk Management Information (RMI) - Sustainment</p> <p align="right">Articles:</p> <p>FY 2021 Plans:</p> <ul style="list-style-type: none"> - Streamlined Incident Reporting (SIR) and Dive Jump Reporting System (DJRS) agile sustainment - Safety Program Management (SPM) - system integration support, deployment and sustainment - Afloat sustainment for RMI - Help desk for SIR, SPM, and DJRS - MBSE model sustainment and updates - Interface updates and maintenance - Respond to user feedback as per agile methodology (change requests from user community) - Code upgrades, maintenance, and modernization <p>FY 2022 Base Plans:</p> <ul style="list-style-type: none"> - Streamlined Incident Reporting agile sustainment - Dive Jump Reporting System (DJRS) agile sustainment - Safety Program Management (SPM) - system integration support, deployment and agile Sustainment 	0.000	7.790	9.432	0.000	9.432
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
- Afloat deployment and agile sustainment for RMI - A&D capability sustainment - Help desk for SIR, SPM, and DJRS - MBSE model sustainment and updates - Interface updates and maintenance - Respond to user feedback as per agile methodology (change requests from user community) - Code upgrades, maintenance, and modernization FY 2022 OCO Plans: N/A FY 2021 to FY 2022 Increase/Decrease Statement: \$1,642K increase is a result of increased contract sustainment efforts due two new SPM module deployments, A&D and SIR sustainment activities and DJRS. Sustainment increase is commensurate with a decrease in contracted development efforts.					
Accomplishments/Planned Programs Subtotals	0.000	13.924	13.703	0.000	13.703

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OMN/BSIT: RMI Sustainment	5.341	0.000	0.000	-	0.000	-	-	-	-	-	-
• RDTEN/0605013N/2905: RMI Development	7.000	0.000	0.000	-	0.000	-	-	-	-	-	-

Remarks

D. Acquisition Strategy
 RISK MANAGEMENT INFORMATION (RMI)
 There are existing Commercial-Off-the-Shelf (COTS) software and services that, with customization, can fill the Navy's documentation requirements and generate safety reporting of the United States Naval forces. These services will be procured through an 8A Cost Plus Fixed Fee (CPFF) contract.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy **Date:** May 2021

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Product Development (\$ in Millions)				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			
Risk Management Information (RMI) Development	C/CPFF	Kapsuun : Arlington, VA	0.000	0.000		6.134	Jun 2021	4.271	Jun 2022	-		4.271	-	-	-
Subtotal			0.000	0.000		6.134		4.271		-		4.271	-	-	N/A

Support (\$ in Millions)				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			
Risk Management Information (RMI) Sustainment	C/CPFF	Various : Arlington, VA	0.000	0.000		7.790	Nov 2020	9.432	Nov 2021	-		9.432	-	-	-
Subtotal			0.000	0.000		7.790		9.432		-		9.432	-	-	N/A

Remarks
RMI support (sustainment) costs include a variety of performers as sustainment spans software licensing, NIAPS fees, cloud fees, NWCF, contractor support for maintenance of deployed systems, configuration change requests, and help desk support.

Project Cost Totals	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
	0.000	0.000	13.924	13.703	-	13.703	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Navy **Date: May 2021**

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Proj 2901	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Risk Management Information (RMI)	SPM Module Deployment																											
	A&D Phase 3												SPM Full Deployment ◆															
	SIR Final Release				Afloat Capability Deployment																							
	Afloat Disconnected												SPM Deferred User Adaptation				SPM Predictive Analytics				SPM Predictive Analytics Post Implementatino Review ◆							

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Navy		Date: May 2021
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2901				
Risk Management Information (RMI): RMI Safety Program Management Module Deployment	1	2020	3	2022
Risk Management Information (RMI): RMI Safety Program Management Full Deployment	3	2022	3	2022
Risk Management Information (RMI): RMI Analysis and Dissemination Phase 3 - Predictive Analysis	1	2020	3	2022
Risk Management Information (RMI): RMI Streamlined Incident Reporting Final Release	1	2020	1	2021
Risk Management Information (RMI): RMI Safety Program Management Shipboard Architecture Deployment	1	2022	4	2022
Risk Management Information (RMI): RMI Safety Program Management Deferred User Adaption	2	2022	4	2022
Risk Management Information (RMI): RMI Predictive Analytics for SPM	2	2022	4	2022
Risk Management Information (RMI): RMI Afloat Development of Pilots	3	2021	4	2022