

UNCLASSIFIED

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 8: Software and Digital Technology Pilot Programs</i>	R-1 Program Element (Number/Name) PE 0608013N / <i>RISK MANAGMENT INFO - SOFTWARE PILOT PROGRAM</i>
--	---

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	13.394	13.703	12.810	-	12.810	12.332	12.494	12.700	12.906	Continuing	Continuing
2901: <i>Navy Enterprise IT</i>	0.000	13.394	13.703	12.810	-	12.810	12.332	12.494	12.700	12.906	Continuing	Continuing

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).

UNCLASSIFIED

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 8: Software and Digital Technology Pilot Programs</i>	R-1 Program Element (Number/Name) PE 0608013N / <i>RISK MANAGMENT INFO - SOFTWARE PILOT PROGRAM</i>
--	---

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	13.924	13.703	0.000	-	0.000
Current President's Budget	13.394	13.703	12.810	-	12.810
Total Adjustments	-0.530	0.000	12.810	-	12.810
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.530	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	-	-	12.810	-	12.810

Change Summary Explanation

Funding: The net decrease of -\$893K is due to a consolidation in sustainment requirements as SIR, SPM and A&D move towards sustainment and development efforts continue to decrease as modules deploy.

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

UNCLASSIFIED

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

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 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
2901: Navy Enterprise IT	0.000	13.394	13.703	12.810	-	12.810	12.332	12.494	12.700	12.906	Continuing	Continuing
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: Risk Management Information (RMI) - Development	5.604	4.271	3.843	0.000	3.843
Articles:	-	-	-	-	-
FY 2022 Plans: FY22 funding will be used to continue developing the Risk Management Information (RMI) Analysis and Dissemination (A&D) and Safety Program Management (SPM) capabilities.					
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. For FY22, RMI will focus its A&D efforts on business intelligence tools (BI) and dashboarding through tools like Tableau, which will be integrated into the production system to allow subject matter experts (SMEs) at the safety centers to create customized reports for their					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 8	R-1 Program Element (Number/Name) PE 0608013N / <i>RISK MANAGMENT INF</i> O - <i>SOFTWARE PILOT PROGRAM</i>	Project (Number/Name) 2901 / <i>Navy Enterprise IT</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>customers. Towards the end of FY22, Air Force and Navy will investigate industry solutions to provide a BI solution for all RMI users. RMI will also engage the Army Analytics Group (AAG) and Jupiter to export RMI safety data to these external systems so as to leverage their suite of advanced analytic tools as well as authoritative data sources to deliver releases 1 and 2.</p> <p>SPM: Maintaining RMI's incremental development-to-deployment-sustainment approach, SPM module development and deployment will continue, providing users with capabilities needed for planning, preparing and executing a safety and occupational health program. Confined Space Entry and Fall Protection modules are next in line and scheduled for deployment in FY22, with sustainment activities continuing thereafter. Specific module capabilities include: Inspections, Hazard Abatement, Confined Space Entry, Fall Protection, Safety Committee, Operational Risk 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>FY 2023 Base Plans: FY23 funding will be used to continue developing the Risk Management Information (RMI) Analysis and Dissemination (A&D) and Safety Program Management (SPM) capabilities.</p> <p>A&D: for release 3, RMI 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 through the end of FY23. 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. For FY23, RMI will select, integrate and deploy a BI tool for the entire RMI user community. In addition, RMI will explore advanced analytics through AAG and/or Jupiter, potentially including areas like predictive analytics, machine learning, or Bayesian analysis.</p> <p>SPM: Maintaining RMI's incremental development-to-deployment-sustainment approach, SPM module planning, design, agile development and deployment will continue, providing users with capabilities needed for planning,</p>					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 8	R-1 Program Element (Number/Name) PE 0608013N / <i>RISK MANAGMENT INF</i> O - <i>SOFTWARE PILOT PROGRAM</i>	Project (Number/Name) 2901 / <i>Navy Enterprise IT</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>preparing and executing a safety and occupational health program. Specific module capabilities continuing agile development in FY 23 include: Safety Committee, Operational Risk 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. Current plans project that Medical surveillance and Respiratory Protection models will be the final models still in development by Q4 of FY23.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: \$.428M Decrease - The transition of DJRS, SIR, A&D and SPM increments into agile sustainment will result in RMI development activities gradually decreasing.</p>					
<p>Title: Risk Management Information (RMI) - Sustainment</p> <p align="right">Articles:</p> <p>FY 2022 Plans:</p> <ul style="list-style-type: none"> - Streamlined Incident Reporting agile sustainment - Dive Jump Reporting System (DJRS) agile sustainment - Safety Program Management (SPM) - continued incremental development-to-deployment-to- agile sustainment - Afloat Quality of Service assessments and continuous QoS implementation. - 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 <p>FY 2023 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 - Afloat agile sustainment and Ad Hoc testing for QoS impacts - A&D capability sustainment - Help desk for SIR, SPM, and DJRS 	7.790	9.432	8.967	0.000	8.967
	-	-	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
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

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<ul style="list-style-type: none"> - 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 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: FY23 decrease of -\$.465M reflects consolidation of support and maintenance activities.</p>					
Accomplishments/Planned Programs Subtotals	13.394	13.703	12.810	0.000	12.810

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

N/A

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.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy **Date:** April 2022

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
--	--	---

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	5.604	Jun 2021	4.271	Jun 2022	3.843	Jun 2023	-		3.843	Continuing	Continuing	Continuing
Subtotal			0.000	5.604		4.271		3.843		-		3.843	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	7.790	Nov 2020	9.432	Nov 2021	8.967	Nov 2022	-		8.967	Continuing	Continuing	Continuing
Subtotal			0.000	7.790		9.432		8.967		-		8.967	Continuing	Continuing	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.

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	13.394	13.703	12.810	-	12.810	Continuing	Continuing	N/A

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy **Date:** April 2022

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
--	--	---

Proj 2901	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027																																																																																																																																																																																																																																																																																																																																																			
	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)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="12">SPM Module Deployment</td> <td colspan="16"></td> </tr> <tr> <td colspan="12"></td> <td colspan="16">SPM Full Deployment</td> </tr> <tr> <td colspan="12"></td> <td colspan="16">A&D Phase 3</td> </tr> <tr> <td colspan="4">SIR Final Release</td> <td colspan="12">Afloat Capability Deployment</td> <td colspan="12"></td> </tr> <tr> <td colspan="12"></td> <td colspan="12">SPM Deferred User Adaptation</td> <td colspan="4"></td> </tr> <tr> <td colspan="12"></td> <td colspan="12">SPM Predictive Analytics</td> <td colspan="4"></td> </tr> <tr> <td colspan="12"></td> <td colspan="12"></td> <td colspan="4">SPM Predictive Analytics Post Implementatino Review</td> </tr> <tr> <td colspan="12"></td> <td colspan="12">Afloat QoS Assessments</td> <td colspan="4"></td> </tr> <tr> <td colspan="12"></td> <td colspan="12"></td> <td colspan="4">A&D Sustainment</td> </tr> <tr> <td colspan="12"></td> <td colspan="12"></td> <td colspan="4">SPM Sustainment</td> </tr> <tr> <td colspan="12"></td> <td colspan="12"></td> <td colspan="4">DJRS Sustainment</td> </tr> <tr> <td colspan="12"></td> <td colspan="12"></td> <td colspan="4">SIR Sustainment</td> </tr> </table>																												SPM Module Deployment																																								SPM Full Deployment																												A&D Phase 3																SIR Final Release				Afloat Capability Deployment																																				SPM Deferred User Adaptation																												SPM Predictive Analytics																																								SPM Predictive Analytics Post Implementatino Review																Afloat QoS Assessments																																								A&D Sustainment																												SPM Sustainment																												DJRS Sustainment																												SIR Sustainment			
SPM Module Deployment																																																																																																																																																																																																																																																																																																																																																																												
												SPM Full Deployment																																																																																																																																																																																																																																																																																																																																																																
												A&D Phase 3																																																																																																																																																																																																																																																																																																																																																																
SIR Final Release				Afloat Capability Deployment																																																																																																																																																																																																																																																																																																																																																																								
												SPM Deferred User Adaptation																																																																																																																																																																																																																																																																																																																																																																
												SPM Predictive Analytics																																																																																																																																																																																																																																																																																																																																																																
																								SPM Predictive Analytics Post Implementatino Review																																																																																																																																																																																																																																																																																																																																																				
												Afloat QoS Assessments																																																																																																																																																																																																																																																																																																																																																																
																								A&D Sustainment																																																																																																																																																																																																																																																																																																																																																				
																								SPM Sustainment																																																																																																																																																																																																																																																																																																																																																				
																								DJRS Sustainment																																																																																																																																																																																																																																																																																																																																																				
																								SIR Sustainment																																																																																																																																																																																																																																																																																																																																																				

2023PB - 0608013N - 2901

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 8	R-1 Program Element (Number/Name) PE 0608013N / <i>RISK MANAGMEMENT INF</i> O - <i>SOFTWARE PILOT PROGRAM</i>	Project (Number/Name) 2901 / <i>Navy Enterprise IT</i>

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	2021	3	2022
Risk Management Information (RMI): RMI Safety Program Management Full Deployment	3	2022	4	2023
Risk Management Information (RMI): RMI Analysis and Dissemination Phase 3 - Predictive Analysis	1	2021	4	2023
Risk Management Information (RMI): RMI Streamlined Incident Reporting Final Release	1	2021	1	2021
Risk Management Information (RMI): RMI Safety Program Management Shipboard Architecture Deployment	1	2022	4	2023
Risk Management Information (RMI): RMI Safety Program Management Deferred User Adaption	2	2022	4	2023
Risk Management Information (RMI): RMI Predictive Analytics for SPM	2	2022	4	2023
Risk Management Information (RMI): RMI Predictive Analytics Post Implementation Review	4	2023	2	2024
Risk Management Information (RMI): RMI Afloat Qaulity of Service Assessments	3	2021	4	2023
Risk Management Information (RMI): RMI A&D Sustainment	1	2023	4	2027
Risk Management Information (RMI): RMI SPM Sustainment	2	2022	4	2027
Risk Management Information (RMI): RMI DJRS Sustainment	1	2021	4	2027
Risk Management Information (RMI): RMI SIR Sustainment	1	2021	4	2027