

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2021 Navy **Date:** February 2020

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

COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	14.300	-	14.300	14.355	13.112	12.568	12.819	Continuing	Continuing
2901: <i>AAUSN IT</i>	0.000	0.000	0.000	14.300	-	14.300	14.355	13.112	12.568	12.819	Continuing	Continuing

**Note**

Starting in FY2021, Risk Management Information (RMI) budget controls have been realigned from Research, Development, Test & Evaluation (RDT&E) Program Element (PE) 0605013N Project Unit 2905 (\$6.300M) and Operations, Maintenance, Navy (OMN) AGSAG BSIT (\$8.000M) and consolidated into a single Software & Digital Technology Pilot Program under a new Budget Activity (BA 8) in PE 0608013N. As directed by Section 872 of the National Defense Authorization Act (NDAA) for FY 2018 (P.L. 115-91). This is not a New Start in FY21.

**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**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2021 Navy	<b>Date:</b> February 2020
---	----------------------------

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

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	14.300	-	14.300
Total Adjustments	0.000	0.000	14.300	-	14.300
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	14.300	-	14.300

**Change Summary Explanation**

**Funding:**

Starting in FY2021, Risk Management Information (RMI) budget controls have been realigned from Research, Development, Test & Evaluation (RDT&E) Program Element (PE) 0605013N Project Unit 2905 (\$6.300M) and Operations, Maintenance, Navy (OMN) AGSAG BSIT (\$8.000M) and consolidated into a single Software & Digital Technology Pilot Program under a new Budget Activity (BA 8) in PE 0608013N. As directed by Section 872 of the National Defense Authorization Act (NDAA) for FY 2018 (P.L. 115-91). This is not a New Start in FY21.

Funding Profile in FY19 and FY20 is as follows:

OMN AGSAG BSIT: FY19 (\$2.119M) FY20 (\$6.013M)

RD TEN PE 0605013N Project 2905: FY19 (\$1.100M) FY20 (\$7.000M)

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 1319 / 8					<b>R-1 Program Element (Number/Name)</b> PE 0608013N / (U) RISK MANAGMENT INFO - SOFTWARE PILOT PROGRAM				<b>Project (Number/Name)</b> 2901 / AAUSN IT			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
2901: AAUSN IT	0.000	0.000	0.000	14.300	-	14.300	14.355	13.112	12.568	12.819	Continuing	Continuing

**Note**

Starting in FY2021, RMI budget controls have been realigned from Research, Development, Test & Evaluation (RDT&E) Program Element (PE) 0605013N Project Unit 2905 and Operations, Maintenance, Navy (OMN) AGSAG BSIT and consolidated into a single Software & Digital Technology Pilot Program under a new Budget Activity (BA 8) PE 0608013N. As directed by Section 872 of the National Defense Authorization Act (NDAA) for FY 2018 (P.L. 115-91). This is not a New Start in FY21.

**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)**

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<b>Title:</b> Risk Management Information (RMI) - Development	0.000	0.000	6.300	0.000	6.300
<b>FY 2020 Plans:</b>					
The following FY20 plans were reported under RD TEN PE 0605013N - Project 2905. Funding realigned to PE 0608013N - Project 2901 in FY21 and out.					
Investment in development and modernization of predictive analytic system which will provide:					
1.) Improvements in data analysis					
2.) Predictive operational safety and risk information					
3.) Participation in TYCOM near miss reporting processes to share lessons across the force					
4.) Development of a robust process to assess instances of organizational drift and detect accumulation of accident risk over time					
5.) Improve data visualization.					

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy	<b>Date:</b> February 2020
--	----------------------------

<b>Appropriation/Budget Activity</b> 1319 / 8	<b>R-1 Program Element (Number/Name)</b> PE 0608013N / (U) RISK MANAGMENT INFO - SOFTWARE PILOT PROGRAM	<b>Project (Number/Name)</b> 2901 / AAUSN IT
--	---	---

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
---	---------	---------	--------------	-------------	---------------

Development of an SPM system/capability that replaces legacy systems and implements to-be process improvements for executing a safety and occupational health (SOH) program across the DON.

Conduct trade off studies to determine options for providing a portal integration capability.

**FY 2021 Base Plans:**  
 FY21 funding will be used to continue developing the 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, (approximate total 11) resulting in design specifications, updated business processes, training curriculum and testing criteria for developers to create the frontend SPM application.

In FY21, RMI also creates an SPM architecture and Single Point of Entry (SPOE), and 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 will provide 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.

--	--	--	--	--	--

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy			<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 1319 / 8	<b>R-1 Program Element (Number/Name)</b> PE 0608013N / (U) RISK MANAGMEMENT INFO - SOFTWARE PILOT PROGRAM	<b>Project (Number/Name)</b> 2901 / AAUSN IT			
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<p>Three incremental deployments to projected completion of Enterprise Data Warehouse (Analysis and Dissemination) in FY21. Final Increment 3 deployment foundation is partnership between NAVSAFECEN and Army Analytics Group (AAG) - parallel and complementary efforts.</p> <p>SIR Release 1 deployment date re-baselined to 31 August 2020 with Release 2 scheduled for Q1FY21.</p> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY20 control under PE 0605013N - Project 2905 is \$7.000M. Funding decrease between FY20 and FY21 of \$0.700M supports a four year (vice three year) implementation plan of Safety Program Management (SPM) development work. The revised profile decreases more gradually over time.</p>					
<p><b>Title:</b> Risk Management Information (RMI) - Sustainment</p> <p><b>FY 2020 Plans:</b> FY20 Accomplishments reported under OMN AGSAG BSIT. Funding realigned to PE 0608013N - Project 2901 in FY21 and out.</p> <ul style="list-style-type: none"> <li>- Streamlined Incident Reporting (SIR) and Dive Jump Reporting System (DJRS) agile sustainment</li> <li>- Afloat sustainment for SIR</li> <li>- Help desk for SIR and DJRS</li> <li>- MBSE model sustainment and updates</li> <li>- Interface updates and maintenance (DJRS focus)</li> <li>- Respond to user feedback as per agile methodology (change requests from user community)</li> <li>- Code upgrades, maintenance, and modernization</li> </ul> <p><b>FY 2021 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Streamlined Incident Reporting (SIR) and Dive Jump Reporting System (DJRS) agile sustainment</li> <li>- Safety Program Management (SPM) - system integration support, deployment and sustainment</li> <li>- Afloat sustainment for RMI</li> <li>- Help desk for SIR, SPM, and DJRS</li> </ul>	0.000	0.000	8.000	0.000	8.000

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2021 Navy **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 8	<b>R-1 Program Element (Number/Name)</b> PE 0608013N / (U) RISK MANAGEMEMENT INFO - SOFTWARE PILOT PROGRAM	<b>Project (Number/Name)</b> 2901 / AAUSN IT
--	--	---

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<ul style="list-style-type: none"> <li>- MBSE model sustainment and updates</li> <li>- Interface updates and maintenance</li> <li>- Respond to user feedback as per agile methodology (change requests from user community)</li> <li>- Code upgrades, maintenance, and modernization</li> </ul> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY20 control under OMN AGSAG BSIT is \$6.013M. Increase of \$1.857M - RMI requires an afloat sustainment increase in FY21 as the first three modules of SPM transfer to sustainment. This will require deployment and sustainment support, data cost increases for cloud fees, additional help desk support, and additional software services via a licensing arrangement.</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	14.300	0.000	14.300

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OMN/BSIT: RMI Sustainment	2.119	6.013	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.132
• RDTEN/0605013N/2905: RMI Development	1.100	7.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.100

**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 CPFF contract.

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 8	<b>R-1 Program Element (Number/Name)</b> PE 0608013N / (U) RISK MANAGMEMENT INFO - SOFTWARE PILOT PROGRAM	<b>Project (Number/Name)</b> 2901 / AAUSN IT
--	---	---

<b>Product Development (\$ in Millions)</b>				<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021 Base</b>		<b>FY 2021 OCO</b>		<b>FY 2021 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Risk Management Information (RMI) Development	C/CPFF	Kapsuun : Arlington, VA	0.000	0.000		0.000		6.300	Jun 2021	-		6.300	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	0.000		0.000		6.300		-		6.300	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021 Base</b>		<b>FY 2021 OCO</b>		<b>FY 2021 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Risk Management Information (RMI) Sustainment	C/CPFF	Various : Arlington, VA	0.000	0.000		0.000		8.000	Nov 2020	-		8.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	0.000		0.000		8.000		-		8.000	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.

<b>Project Cost Totals</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
	0.000	0.000	0.000	14.300	-	14.300	Continuing	Continuing	N/A

**Remarks**



**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 8	<b>R-1 Program Element (Number/Name)</b> PE 0608013N / (U) RISK MANAGMEMENT INFO - SOFTWARE PILOT PROGRAM	<b>Project (Number/Name)</b> 2901 / AAUSN IT

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2901</b>				
Risk Management Information (RMI): RMI Safety Program Management Post Implementation Review	1	2019	3	2019
Risk Management Information (RMI): RMI Safety Program Management Module Deployment	3	2019	4	2021
Risk Management Information (RMI): RMI Safety Program Management Full Deployment	4	2021	4	2021
Risk Management Information (RMI): RMI Analysis and Dissemination Phase 2 - Full Deployment	1	2019	2	2019
Risk Management Information (RMI): RMI Analysis and Dissemination Phase 3 - Predictive Analysis	2	2019	1	2022
Risk Management Information (RMI): RMI Streamlined Incident Reporting Final Release	1	2019	1	2021
Risk Management Information (RMI): RMI Safety Program Management Low/No Bandwidth Solution	1	2020	2	2021
Risk Management Information (RMI): RMI Safety Program Management Shipboard Architecture Deployment	1	2021	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	4	2023