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**Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605236A / <i>Integrated Tactical Communications</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	11.993	22.901	23.363	-	23.363	23.695	23.474	23.813	23.728	0.000	152.967
CQ1: <i>Tactical Communication Network Evaluation (TCNE)</i>	-	11.993	22.901	23.363	-	23.363	23.695	23.474	23.813	23.728	0.000	152.967

**A. Mission Description and Budget Item Justification**

The mission of TCNE is to design and validate the tactical network System of Systems (SoS) in accordance with Army's network priorities. TCNE will design the system of systems (SoS) network architecture through continuous test and evaluation to include user/soldier feedback and Verification and Validation efforts. These events help to identify network gaps in formation types, mitigate risk and mature capabilities that are ready for SoS integration within the Army's Tactical Network. TCNE will deliver network architectures that have been validated in an operational environment prior to fielding.

FY 2025 resources will be used to execute SoS architecture development through: engineering analysis, lab-based testing, cyber electromagnetic activities and Soldier Touch Points. Lab and field-based testing will address cyber vulnerabilities that reduce risk related to the integration of the system of system architecture.

The total cost of the Integrated Tactical Network - Rapid Prototyping Middle Tier of Acquisition effort is \$90.4 million RDT&E from FY19 to FY24. The program will conduct an MTA Closeout in 3QFY24 with the Decision Authority (DA), PEO C3T. Effective FY25, the program will operate as a Systems of Systems integration and experimentation effort under the authority granted via the Acquisition Decision Memorandum (ADM) signed June 21,2023

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	12.447	22.901	7.624	-	7.624
Current President's Budget	11.993	22.901	23.363	-	23.363
Total Adjustments	-0.454	0.000	15.739	-	15.739
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.454	-			
• Adjustments to Budget Years	-	-	15.739	-	15.739

**Change Summary Explanation**

Increase in funding line to address the design and validation of the Army tactical network.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605236A / <i>Integrated Tactical Commun</i> <i>ications</i>				<b>Project (Number/Name)</b> CQ1 / <i>Tactical Communication Network</i> <i>Evaluation (TCNE)</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
CQ1: <i>Tactical Communication Network Evaluation (TCNE)</i>	-	11.993	22.901	23.363	-	23.363	23.695	23.474	23.813	23.728	0.000	152.967
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The mission of TCNE is to design and validate the tactical network System of Systems (SoS) in accordance with Army's network priorities. TCNE will design the system of systems (SoS) network architecture through continuous test and evaluation to include user/soldier feedback and Verification and Validation efforts. These events help to identify network gaps in formation types, mitigate risk and mature capabilities that are ready for SoS integration within the Army's Tactical Network. TCNE will deliver network architectures that have been validated in an operational environment prior to fielding.

FY 2025 resources will be used to execute SoS architecture development through: engineering analysis, lab-based testing, cyber electromagnetic activities and Soldier Touch Points. Lab and field-based testing will address cyber vulnerabilities that reduce risk related to the integration of the system of system architecture.

The total cost of the Integrated Tactical Network - Rapid Prototyping Middle Tier of Acquisition effort is \$90.4 million RDT&E from FY19 to FY24. The program will conduct an MTA Closeout in 3QFY24 with the Decision Authority (DA), PEO C3T. Effective FY25, the program will operate as a Systems of Systems integration and experimentation effort under the authority granted via the Acquisition Decision Memorandum (ADM) signed June 21,2023

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Program Management Support	1.021	1.308	1.286
<b>Description:</b> Funding for this purchases SETA support for the TCNE program. Funding goes toward Program management, program execution, major events, reporting, funds execution, contract management, and logistical support. Includes participation in program planning and Integrated Product Team meetings.			
<b>FY 2024 Plans:</b> FY24 funds will provide overall management and oversight to implement ITN acquisition strategy and evaluation through additional testing events.			
<b>FY 2025 Plans:</b> FY25 funds will provide overall management and oversight to implement TCNE acquisition strategy and evaluation through additional testing events.			
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Cost Delta is Insignificant.				
<p><b>Title:</b> Engineering Technical Support</p> <p><b>Description:</b> Engineering &amp; Technical Analysis Support</p> <p><b>FY 2024 Plans:</b> FY 2024 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve ITN objectives. Funds will facilitate technical test support for candidate products utilized within ITN's iterative evaluation and capability implementation strategy.</p> <p><b>FY 2025 Plans:</b> FY 2025 funds will provide technical systems engineering support to evaluate technical alternatives and perform communication architecture analysis to identify alternatives to reduce cost, improve performance, and achieve TCNE objectives. Funds will facilitate technical test support utilized within TCNE's iterative evaluation and capability implementation strategy.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Cost Delta is insignificant.</p>		1.704	1.757	1.792
<p><b>Title:</b> Test and Evaluation</p> <p><b>Description:</b> Evaluation will include a series of events to identify network capabilities, gaps and potential enhancements to improve mission effectiveness, lethality and interoperability with the Army Tactical network. The results of the events will facilitate the planning preparation, and coordination of the proposed system of system network architecture.</p> <p><b>FY 2024 Plans:</b> ITN testing and evaluation will utilize a series of System of Systems assessments that gather multiple data points which include Lab Based Risk Reduction (LBRR), Technical Test(TT), Electronic Warfare Operational Test, three Cyber Tests and a culminating Cap Set Operational Demonstration. These are collaborative events that provide feedback regarding cybersecurity resiliency, risk reduction and network performance prior to an operational demonstration</p> <p><b>FY 2025 Plans:</b> Testing and evaluation will utilize a series of System of Systems assessments that gather multiple data points which include verification and validation, continuous lab environments and soldier touch points. These are collaborative events that provide feedback regarding cybersecurity resiliency, risk reduction and network performance.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b></p>		9.268	19.836	20.285

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605236A / <i>Integrated Tactical Commun ications</i>	<b>Project (Number/Name)</b> CQ1 / <i>Tactical Communication Network Evaluation (TCNE)</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Cost Delta is insignificant.			
<b>Accomplishments/Planned Programs Subtotals</b>	11.993	22.901	23.363

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

N/A

**Remarks**

**D. Acquisition Strategy**

The total cost of the Integrated Tactical Network - Rapid Prototyping Middle Tier of Acquisition effort is \$90.4 million RDT&E from FY19 to FY24. The program will conduct an MTA Closeout in 3QFY24 with the Decision Authority (DA), PEO C3T. Effective FY25, the program will operate as a Systems of Systems integration and experimentation effort under the authority granted via the Acquisition Decision Memorandum (ADM) signed June 21,2023.

TCNE will focus on System of Systems (SoS) Engineering and Integration for the tactical network with increased emphasis on immediate Warfighter needs as well as leveraging emerging technologies. TCNE will purchase the commercial off the shelf items needed by utilizing various contractual vehicles, to include Common Hardware System 6th Generation (CHS-6), other indefinite delivery/indefinite quantity, and Defense Logistics Agency(DLA).

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army** **Date:** March 2024

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<b>Management Services (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Program Management Support	SS/CPFF	TBD : APG	-	1.021	Feb 2023	1.308	Feb 2024	1.286	Feb 2025	-		1.286	0.000	3.615	-
<b>Subtotal</b>			-	1.021		1.308		1.286		-		1.286	0.000	3.615	N/A

**Remarks**  
RS3 SETA Contract picks up option year in February of each year.

<b>Support (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Engineering and Technical Support	SS/IDIQ	MITRE/Booz Allen Hamilton : Various	-	1.704	Dec 2022	1.757	Dec 2023	1.792	Dec 2024	-		1.792	0.000	5.253	-
<b>Subtotal</b>			-	1.704		1.757		1.792		-		1.792	0.000	5.253	N/A

**Remarks**  
MITRE Engineering and Technical Support

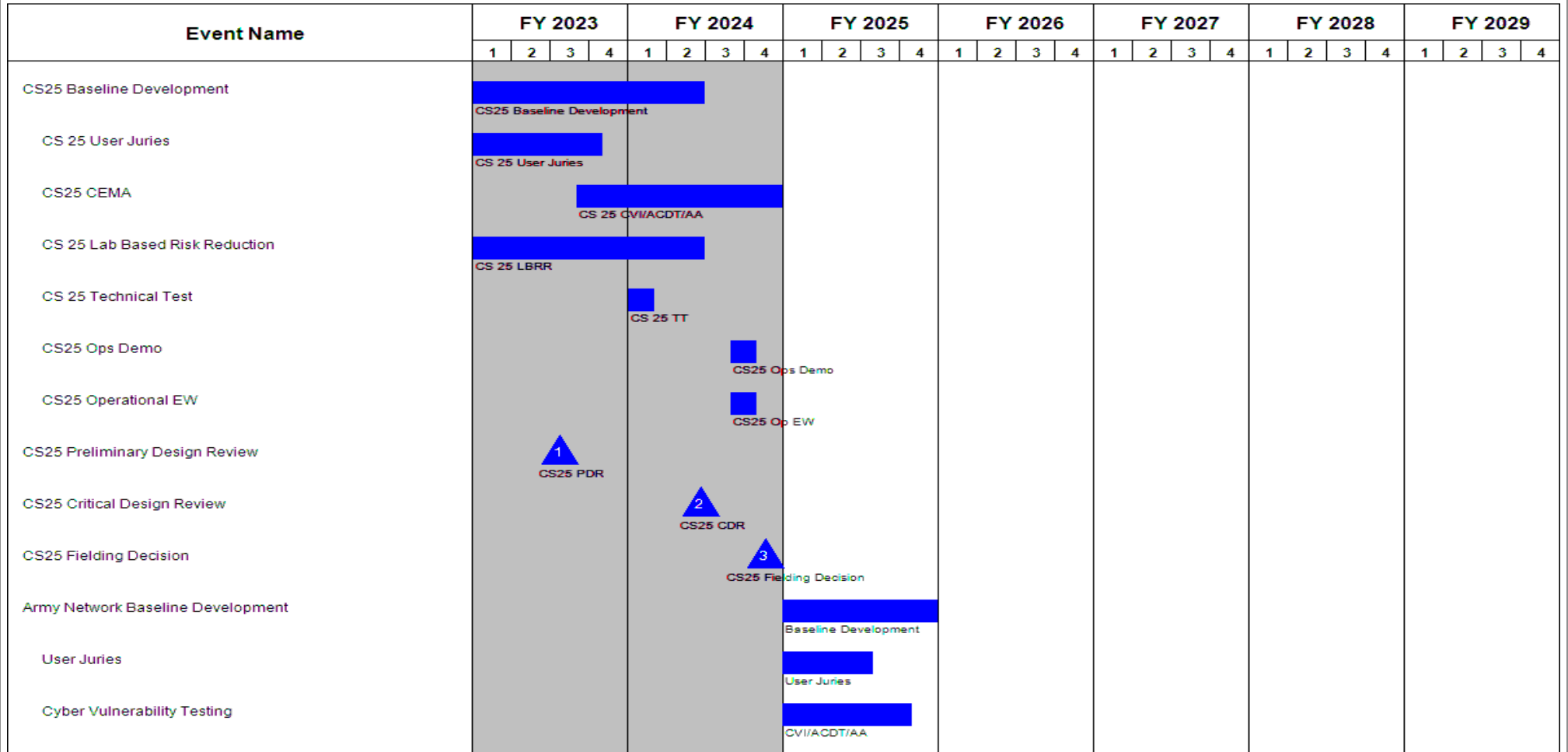
<b>Test and Evaluation (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test and Evaluation	C/Various	Testing : Various	-	9.268	Dec 2022	19.836	Jan 2023	20.285	Jan 2025	-		20.285	0.000	49.389	-
<b>Subtotal</b>			-	9.268		19.836		20.285		-		20.285	0.000	49.389	N/A

			Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			-	11.993	22.901	23.363	-	23.363	0.000	58.257	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b>		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605236A / <i>Integrated Tactical Commun</i> <i>ications</i>	<b>Project (Number/Name)</b> CQ1 / <i>Tactical Communication Network</i> <i>Evaluation (TCNE)</i>



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b>		<b>Date:</b> March 2024
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Continuous Lab Environment																																
Verification and Validation Events																																
Soldier Touch Point																																
FY26 Baseline Development																																
FY27 Baseline Development																																
FY28 Baseline Development																																
FY29 Baseline Development																																

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Army		<b>Date:</b> March 2024
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
CS25 Baseline Development	1	2023	2	2024
CS 25 User Juries	1	2023	4	2023
CS25 CEMA	3	2023	4	2024
CS 25 Lab Based Risk Reduction	1	2023	2	2024
CS 25 Technical Test	1	2024	1	2024
CS25 Ops Demo	3	2024	4	2024
CS25 Operational EW	3	2024	4	2024
CS25 Preliminary Design Review	3	2023	3	2023
CS25 Critical Design Review	2	2024	2	2024
CS25 Fielding Decision	4	2024	4	2024
Army Network Baseline Development	1	2025	4	2025
User Juries	1	2025	3	2025
Cyber Vulnerability Testing	1	2025	4	2025
Continuous Lab Environment	1	2025	4	2025
Verification and Validation Events	1	2025	1	2025
Soldier Touch Point	4	2025	4	2025
FY26 Baseline Development	1	2026	4	2026
FY27 Baseline Development	1	2027	4	2027
FY28 Baseline Development	1	2028	4	2028
FY29 Baseline Development	1	2029	4	2029

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**Note**  
Network baseline activities will utilize a series of System of Systems assessments that gather multiple data points which include verification and validation, continuous lab environments and soldier touch points. These are collaborative events that provide feedback regarding cybersecurity resiliency, risk reduction and network performance.