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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Office of the Secretary Of Defense **Date:** March 2023

Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604011D8Z / Next Generation Information Communications Technology (5G)
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	327.714	248.466	179.278	-	179.278	159.467	88.423	71.569	73.125	Continuing	Continuing
724: Dual Use 5G Use Cases	-	203.323	44.447	149.600	-	149.600	99.240	42.904	44.486	45.420	Continuing	Continuing
725: Congested/Congested Spectrum	-	122.791	181.840	23.423	-	23.423	53.785	37.328	18.243	18.625	Continuing	Continuing
726: External Engagement	-	0.100	19.679	6.255	-	6.255	6.442	8.191	8.840	9.080	Continuing	Continuing
729: 5G Cross Functional Team	-	1.500	2.500	-	-	-	-	-	-	-	-	-

Note

New Start (Y/N): No

Funding realigned from Project 725 to Project 724 to support expanded efforts of Open Radio Access Network (Open RAN), distributed multi-input multi-output (MIMO), dynamic spectrum access (DSA), software-defined radio (SDR). Administratively requested funding in the amount \$7.000 million for 5G Cross Functional Team under Project 724 in FY 2024.

A. Mission Description and Budget Item Justification

This program supports the Department's initiatives to Defend the Homeland, Build Sustainable and Long-Term Advantage, and Build a Resilient Joint Force and Defense Ecosystem.

The Department of Defense (DoD) Next Generation (NextG) Information Communications Technologies (ICT) program will conduct large-scale experimentation and prototyping of dual-use (military and commercial) fifth-generation (5G) cellular network technology for military uses. The program will develop and deploy 5G networks at DoD sites to evaluate and enhance 5G systems and technologies for CONUS and OCONUS DoD missions. This will include both the direct use of commercially available capabilities and DoD-specific technology enhancements and applications that highly leverage commercial capabilities. The program will also develop, test, and evaluate technology solutions to identify and mitigate the security challenges that 5G and NextG technologies will present in order to enable the military to operate through untrusted networks.

The program will:

- Deploy flexible 5G infrastructure at twelve or more U.S. military facilities to enable varied applications and networking prototypes,
- Evaluate at least twenty different DoD 5G applications at DoD facilities across the Services based on parallel commercial applications and technologies,
- Demonstrate the capacity to “operate through” existing commercial 5G infrastructure throughout the globe, leveraging existing infrastructure to meet DoD mission needs and learning how to utilize untrusted 5G networks through automated security techniques.

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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604011D8Z / <i>Next Generation Information Communications Technology (5G)</i>
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The program will deliver fieldable prototype capabilities that will remain in place at designated DoD locations as well as lessons learned to promulgate 5G knowledge and tradecraft. This will ensure that both near-term and future generations of information and communications technologies will be capable of supporting US military and national security objectives.

The program will be executed through established support agreements with DoD Service laboratories and through existing DoD and Government-Wide Acquisition Contracts (GWACs), to include General Services Administration (GSA, contracts) that are suitable and cost-effective for 5G technology prototyping and telecommunications network equipment procurement and integration.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	336.485	249.591	182.428	-	182.428
Current President's Budget	327.714	248.466	179.278	-	179.278
Total Adjustments	-8.771	-1.125	-3.150	-	-3.150
• Congressional General Reductions	-	-1.125			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-8.720	-			
• Program Adjustments	-0.051	-	-3.150	-	-3.150

Change Summary Explanation

FY 2024 reduction of \$3.150 million is comprised of a realignment of \$3.970 million to support the Historically Black Colleges and Universities/Minority Serving Institutions program, which is a priority of the Under Secretary of Defense for Research and Engineering (USD(R&E)), and \$0.190 million to support departmental priorities and an economic assumption increase of \$1.010 million.

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Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604011D8Z / Next Generation Information Communications Technology (5G)	Project (Number/Name) 724 / Dual Use 5G Use Cases
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
724: Dual Use 5G Use Cases	-	203.323	44.447	149.600	-	149.600	99.240	42.904	44.486	45.420	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Develop and evaluate “dual-use” applications that demonstrate direct use of commercial systems and applications that use a large fraction of commercial capabilities that are augmented with DoD enhancements. Dual-use applications will be evaluated within a deployed 5G infrastructure with operationally relevant numbers of users and geographic scale.

These use cases include:

- Mission Planning/Training: Develop and evaluate ultra-high reliability, low latency, high bandwidth communications, as well as augmented and virtual reality (AV/VR) technologies that enable high fidelity mission planning and training in realistic environments over 5G networks.
- Depot Operations: Leverage 5G technologies to upgrade depots for “smart” operations including autonomous repair and maintenance activities as well as warehouse movement via driverless forklifts, pallets, and tactical trucks.
- Global Asset/Supply Chain Management: Leverage emerging 5G enterprise solutions to provide real time, optimum, continuous asset visibility and movement tracking, supply status, movement and resupply, and reduce inventory control costs.
- Smart Installations (e.g., logistics bases, ports): Develop and evaluate 5G enabled massive machine-to-machine communications, cloud and edge computing, and autonomy to enhance installation operations to maximize logistics traffic throughput.

Dual-use 5G research, development, and experimentation activities will deliver operational prototype capabilities that will remain in place at designated DoD locations. Those that do not perform sufficiently well will still provide lessons learned to promulgate 5G knowledge and tradecraft. These deliverables will inform base/camp/station modernization and recapitalization investments as prototypes transition to enduring infrastructure.

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

	FY 2022	FY 2023	FY 2024
Title: Dual Use 5G Use Cases	203.323	44.447	142.600
Description: Demonstrate use cases of both commercial and military value, while also assessing and developing mitigations to their security vulnerabilities.			
FY 2023 Plans: The DoD will conclude a number of Smart Warehouse prototyping and experimentation activities at Marine Corps Logistics Base - Albany, and Naval Base Coronado; and will finish Augmented Reality/Virtual Reality (AR/VR) Mission Training prototyping and			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p>experimentation activities at JBLM. Experimentation with autonomous warehouse operations and AR/VR mission training activities will conclude. The program will begin technology transitions and start transferring sites to services.</p> <p>The DoD will continue dual-use prototyping and experimentation projects at Joint Base Pearl Harbor - Hickam, Naval Station Norfolk, Camp Pendleton, the National Training Center, and Joint Base San Antonio. Localized full scale 5G mobile cellular networks will continue to support the dual-use military application experimentation at these DoD Service sites. The sites will continue experimentation with AR/VR for aircraft readiness, ship-wide and pier-side connectivity, rapidly deployable 5G for tactical command and control centers, and AR/VR for medical applications to include training.</p> <p>FY 2024 Plans: The DoD will conclude remaining Smart Warehouse prototyping and experimentation activities at sites. The program will continue technology transitions and transferring sites to services.</p> <p>Dual-use prototyping and experimentation projects at Joint Base Pearl Harbor - Hickam, Naval Station Norfolk, Camp Pendleton, the National Training Center, and Joint Base San Antonio will continue. Localized full scale 5G mobile cellular networks will continue to support the dual-use military application experimentation at these DoD Service sites. The sites will continue experimentation with AR/VR for aircraft readiness, ship-wide and pier-side connectivity, rapidly deployable 5G for tactical command and control centers, and AR/VR for medical applications to include training.</p> <p>DoD will further development of Open RAN standards and technologies that accelerate the adoption of open interfaces, interoperable subsystems, and modular, multi-vendor solutions, as well as leverage new technology components (e.g., distributed MIMO, DSA, SDR) to create new ICT systems.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: The increase of \$98.153 million between FY 2023 to FY 2024 reflects realignment of funds from Project 725 to Project 724 to support expanded efforts of Open Radio Access Network (Open RAN), distributed multi-input multi-output (MIMO), dynamic spectrum access (DSA), software-defined radio (SDR). Funding for the 5G CFT requested from Project 724 will be realigned to Project 729 during the year of execution.</p>				
<p>Title: 5G Cross Functional Team (CFT) Support</p> <p>Description: Provide coordination of joint warfighting concepts, research and development, policy and program integration, acquisition and transition, and secure operations of 5G in DoD.</p> <p>FY 2024 Plans:</p>		-	-	7.000

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Provide coordination of joint warfighting concepts, research and development, policy and program integration, acquisition and transition, and secure operations of 5G in DoD. <i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> The increase of \$7.000 million from FY 2023 to FY 2024 will be realigned to Project 729 from Project 724 during the year of execution to continue support of the 5G Cross Functional Team (CFT).			
Accomplishments/Planned Programs Subtotals	203.323	44.447	149.600

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Office of the Secretary Of Defense **Date:** March 2023

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604011D8Z / <i>Next Generation Information Communications Technology (5G)</i>	Project (Number/Name) 724 / <i>Dual Use 5G Use Cases</i>
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FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
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

Dual Use 5G Use Cases	
Initiate Smart Warehouse prototyping and experimentation projects	██████████
Initiate an Augmented/Virtual Reality (AR/VR) Mission Training prototyping and experimentation	██████████
Expansion of localized full scale 5G mobile cellular networks	██████████

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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

Dual Use 5G Use Cases	
Initiate Smart Warehouse prototyping and experimentation projects	██████████
Initiate an Augmented/Virtual Reality (AR/VR) Mission Training prototyping and experimentation	██████████
Expansion of localized full scale 5G mobile cellular networks	██████████

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Office of the Secretary Of Defense		Date: March 2023
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604011D8Z / <i>Next Generation Information Communications Technology (5G)</i>	Project (Number/Name) 724 / <i>Dual Use 5G Use Cases</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Dual Use 5G Use Cases</i>				
Initiate Smart Warehouse prototyping and experimentation projects	1	2021	4	2028
Initiate an Augmented/Virtual Reality (AR/VR) Mission Training prototyping and experimentation	1	2021	4	2028
Expansion of localized full scale 5G mobile cellular networks	2	2021	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Office of the Secretary Of Defense										Date: March 2023		
Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0604011D8Z / <i>Next Generation Information Communications Technology (5G)</i>				Project (Number/Name) 725 / <i>Congested/Congested Spectrum</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
<i>725: Congested/Congested Spectrum</i>	-	122.791	181.840	23.423	-	23.423	53.785	37.328	18.243	18.625	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Demonstrate the capacity to “operate through” existing commercial 5G infrastructure throughout the globe, leveraging existing infrastructure to meet DoD mission needs using dynamic spectrum utilization and controlled manipulation of 5G network security architectures. These capabilities will be based on technologies such as dynamic spectrum utilization to maximize availability and resilience for wireless connectivity, multi-networking across wired and wireless systems for finding and exploiting alternate paths and redundant paths to ensure secure and reliable communication, network monitoring including new artificial intelligence (AI) techniques that use both passive and active measurements to assess security threats and identify potential mitigations. Develop tactical, operational, and strategic networking prototypes to demonstrate capabilities to dynamically balance use of congested spectrum between military systems and commercial wireless networks.

Capabilities will be prototyped and evaluated at-scale within highly dynamic and contested radio frequency (RF) environments. The Congested/Contested Spectrum research, development, and experimentation activities will deliver fieldable prototype capabilities that will remain in place at designated DoD locations. Those that do not perform sufficiently well will still provide lessons learned to promulgate 5G knowledge and tradecraft. These deliverables will inform base/camp/station modernization and recapitalization investments as prototypes transition to enduring infrastructure.

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

	FY 2022	FY 2023	FY 2024
Title: Congested/Contested Spectrum	122.791	181.840	23.423
Description: Demonstrate the capacity to “operate through” in congested/contested environments using dynamic spectrum utilization and by prototyping technologies to both defend and exploit 5G networks.			
FY 2023 Plans: Continue congested/contested spectrum prototyping and experimentation activities at Hill AFB. Continue the evaluation of the impact of the 5G network on the airborne radar systems and the radar’s impact on the 5G network to enable co-use or coexistence. Continue development of a network to disaggregate and mobilize command and control architectures at Nellis AFB, to include experimentation with 5G-enabled disaggregated command and control capabilities.			
The DoD will continue congested/contested spectrum prototyping and experimentation at Tinker AFB, and experimentation with 5G Core security and interoperability in the project centered at Joint Base San Antonio.			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>The DoD will continue investments in key technologies for use in contested environments, to enable “operating through” adversary impediments on 5G networks.</p> <p><i>FY 2024 Plans:</i> Continue congested/contested spectrum prototyping and experimentation activities at Hill AFB. Continue the evaluation of the impact of the 5G network on the airborne radar systems and the radar’s impact on the 5G network to enable co-use or coexistence. Continue development of a network to disaggregate and mobilize command and control architectures at Nellis AFB, to include experimentation with 5G-enabled disaggregated command and control capabilities.</p> <p><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> The decrease of \$158.417 between FY 2023 and FY 2024 reflects realignment of funds from Project 725 to Project 724 to support expanded efforts of Open Radio Access Network (Open RAN), distributed multi-input multi-output (MIMO), dynamic spectrum access (DSA), software-defined radio (SDR).</p>			
Accomplishments/Planned Programs Subtotals	122.791	181.840	23.423

<p>C. Other Program Funding Summary (\$ in Millions) N/A</p> <p>Remarks</p>
<p>D. Acquisition Strategy N/A</p>

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Congested/Contested Spectrum</i>				
Initiate congested/contested spectrum prototyping and experimentation activities at Hill AFB, Utah	4	2020	4	2028
Design and construct a localized full scale 5G mobile cellular network	1	2021	4	2028

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Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604011D8Z / Next Generation Information Communications Technology (5G)	Project (Number/Name) 726 / External Engagement
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
<i>726: External Engagement</i>	-	0.100	19.679	6.255	-	6.255	6.442	8.191	8.840	9.080	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Funding from this project will be used to externally engage across Government and beyond to influence statutes, policies, regulations, and standards within DoD, the U.S. Government, and international bodies for the global deployment and use of 5G to Next G technologies. DoD will conduct active and passive security vulnerability assessments of 5G prototypes in order to support zero-trust security designs for military 5G applications.

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

	FY 2022	FY 2023	FY 2024
Title: External Engagement	0.100	19.679	6.255
Description: Develop policies, regulations, and standards for streamlined deployment of protected, resilient Government and commercial networks. Conduct active and passive security vulnerability assessments to support 5G security capabilities.			
FY 2023 Plans: Continue to engage across government and beyond to inform and influence statutes, policies, regulations, and standards within DoD, the U.S. Government, and international bodies supporting a forward-thinking Next-G position. DoD will continue to conduct security vulnerability assessments and coalition partnership efforts during FY 2023.			
FY 2024 Plans: Maintain efforts to inform and influence statutes, policies, regulations, and standards within DoD, the U.S. Government, and international bodies supporting a forward-thinking Next-G position.			
FY 2023 to FY 2024 Increase/Decrease Statement: The decrease of \$13.424 between FY 2023 and FY 2024 reflects realignment of funds from Project 725 to Project 724 to support expanded efforts of Open Radio Access Network (Open RAN), distributed multi-input multi-output (MIMO), dynamic spectrum access (DSA), software-defined radio (SDR).			
Accomplishments/Planned Programs Subtotals	0.100	19.679	6.255

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

N/A

Remarks

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D. Acquisition Strategy
N/A

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FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
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

External Engagement	
Inform and influence statutes, policies, regulations, and standards within DoD, the U.S. Government, and international bodies	████████████████████
Conduct security vulnerability assessments of designated Dual-Use and Congested/Contested Spectrum experimentation efforts	████████████████████

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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

External Engagement	
Inform and influence statutes, policies, regulations, and standards within DoD, the U.S. Government, and international bodies	████████████████████
Conduct security vulnerability assessments of designated Dual-Use and Congested/Contested Spectrum experimentation efforts	████████████████████

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
External Engagement				
Inform and influence statutes, policies, regulations, and standards within DoD, the U.S. Government, and international bodies	1	2020	4	2028
Conduct security vulnerability assessments of designated Dual-Use and Congested/Contested Spectrum experimentation efforts	2	2020	4	2028

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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
729: 5G Cross Functional Team	-	1.500	2.500	-	-	-	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note

New start Project Code in FY 2023.

A. Mission Description and Budget Item Justification

The 5G Cross Functional Team will provide coordination of joint warfighting concepts, research and development, policy and program integration, acquisition and transition, and secure operations of 5G in DoD.

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

	FY 2022	FY 2023	FY 2024
Title: 5G Cross Functional Team (CFT) Support	1.500	2.500	-
FY 2023 Plans: Provide coordination of joint warfighting concepts, research and development, policy and program integration, acquisition and transition, and secure operations of 5G in DoD.			
FY 2023 to FY 2024 Increase/Decrease Statement: \$7.000 million will be realigned from Project 724 during the year of execution (FY 2024).			
Accomplishments/Planned Programs Subtotals	1.500	2.500	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

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	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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

<i>Project initiation</i>																												
TBD																												

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Project initiation</i>				
TBD	4	2022	4	2023