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

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605029A / Integrated Ground Security Surveillance Response Capability (IGSSR-C)
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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	-	6.423	-	-	-	-	-	-	-	-	-	-
EQ2: <i>IntegGrdSecSurvRespC(IGSSR-C)</i>	-	6.423	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) is an Automated Information System (AIS) program. IGSSR-C has a requirement to provide a layered approach to integrate sensors, sensor systems and unmanned systems with automated fusion capabilities. The system will provide a Force Protection (FP) Common Operational Picture (COP) capability for CONUS fixed, OCONUS semi-fixed or expeditionary elements in all Operating Environments (OE).

This capability will enable rapid decision analysis, speed the response process as well as increase information dissemination horizontally and vertically along the chain of command and with outside supporting organizations. IGSSR-C is a software centric fusion engine that connects legacy and emerging FP systems, legacy Chemical, Biological, Radiological, and Nuclear (CBRN), unmanned systems, biometric identification and forensic data systems. The desired end state is to achieve interoperability and COP with current and emerging FP systems used by Joint Forces, Department of Defense (DoD) agencies and multi-national forces.

FY 2020 is the last year of funding for this program.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	6.699	0.000	0.000	-	0.000
Current President's Budget	6.423	0.000	0.000	-	0.000
Total Adjustments	-0.276	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.276	-			

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army										Date: May 2021		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605029A / <i>Integrated Ground Security Surveillance Response Capability (IGSSR-C)</i>				Project (Number/Name) EQ2 / <i>IntegGrdSecSurvRespC(IGSSR-C)</i>			
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
EQ2: <i>IntegGrdSecSurvRespC(IGSSR-C)</i>	-	6.423	-	-	-	-	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) is an Automated Information System (AIS) program. IGSSR-C has a requirement to provide a layered approach to integrate sensors, sensor systems and unmanned systems with automated fusion capabilities. The system will provide a Force Protection (FP) Common Operational Picture (COP) capability for CONUS fixed, OCONUS semi-fixed or expeditionary elements in all Operating Environments (OE).

This capability will enable rapid decision analysis, speed the response process as well as increase information dissemination horizontally and vertically along the chain of command including outside supporting organizations. IGSSR-C is a software centric system providing video analytics and common control of force protection systems that will reduce the workload on the system operator. The system will be capable. of ingesting full motion video as well as sensor data from legacy and emerging FP systems, Chemical, Biological, Radiological, and Nuclear (CBRN), unmanned systems, biometric identification and forensic data systems. The desired end state is to achieve interoperability and a COP with current and emerging FP systems used by Joint Forces, Department of Defense (DoD) agencies and multi-national forces.

FY 2020 is the last year of RDTE funding and will transition to Procurement funding (M90106).

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

	FY 2020	FY 2021	FY 2022
Title: IGSSR-C Design and Development	6.423	-	-
Description: Completes Critical Design Review (CDR), procures Fixed Control Station(FCS) hardware to conduct cyber security testing, Developmental Testing (DT), Maintenance Assessment, Operational Assessment (OA) and accomplishes MS C.			
Accomplishments/Planned Programs Subtotals	6.423	-	-

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

Line Item	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
• M90106: <i>IntegGrdSecSurvRespC (IGSSR-C)</i>	-	7.287	7.412	-	7.412	-	-	-	-	-	-

Remarks

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D. Acquisition Strategy

IGSSR-C provides a layered approach to integrate sensors, sensor systems and unmanned systems. The IGSSR-C Capability Design Document (CDD) was approved September 2013. IGSSR-C is made up of a suite of software that achieves integration, fusion and interoperability in support of the Army Acquisition Executive's Common Operating Environment (COE) Sensor CE efforts.

The IGSSR-C program received an approved Materiel Development Decision (MDD) from the Milestone Decision Authority (MDA) on 4 December 2015, and achieved a Milestone B decision on 29 Sep 2017.

The acquisition strategy for IGSSR-C was approved on 5 December 2016 by the MDA, which approved plans to leverage a contract through the Night Vision and Electronic Sensors Directorate (NVESD), Fort Belvoir, Virginia to develop, integrate and test the software solution to meet the IGSSR-C requirements.

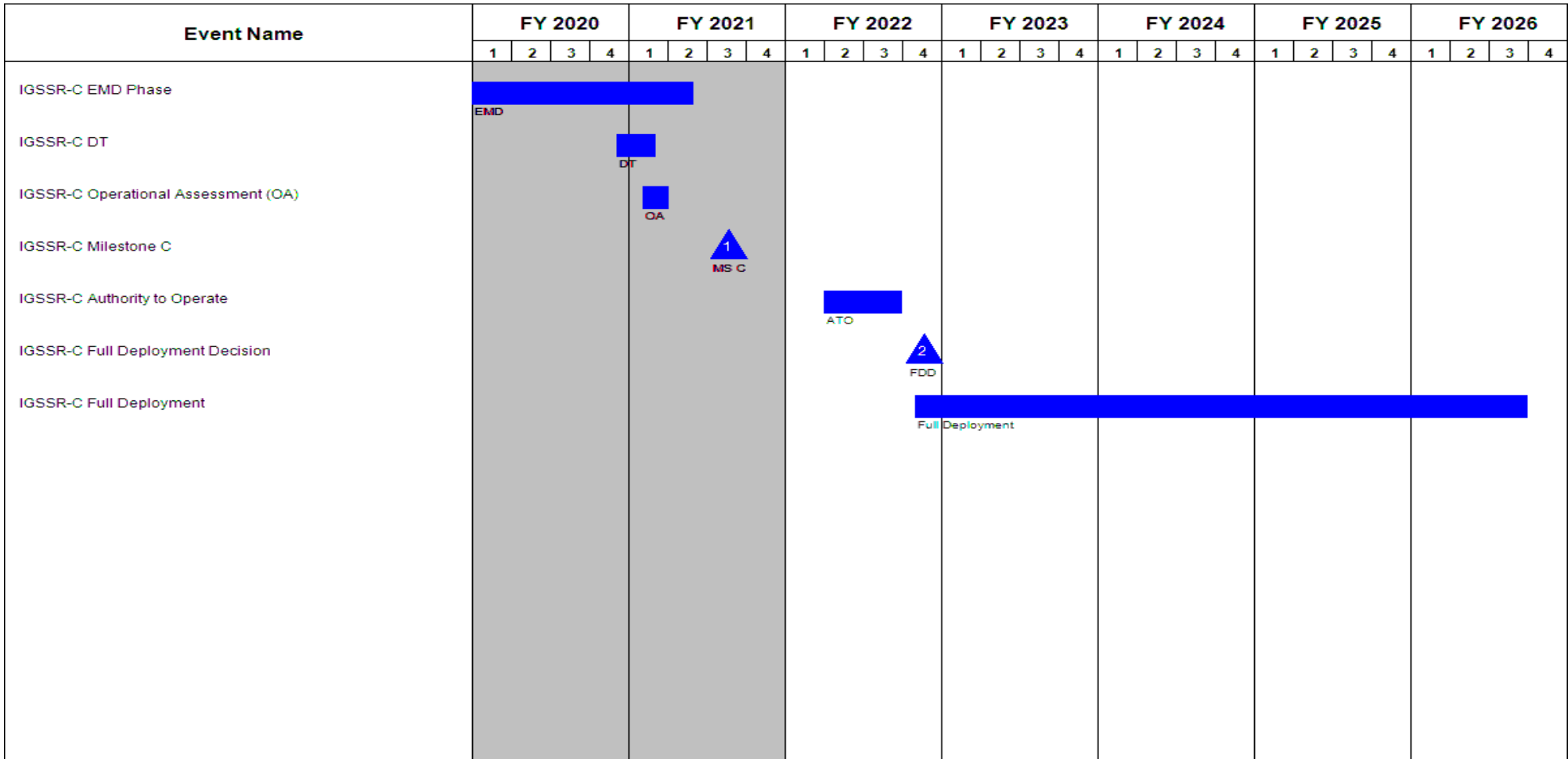
Milestone C is planned for 2nd quarter of FY 2021

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0605029A / Integrated Ground Security Surveillance Response Capability (IGSSR-C)				EQ2 / IntegGrdSecSurvRespC(IGSSR-C)							
Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IGSSR-C Project Management	MIPR	PM FPS : Fort Belvoir, VA	1.620	0.825	May 2020	-		-		-		-	0.000	2.445	-
Subtotal			1.620	0.825		-		-		-		-	0.000	2.445	N/A
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IGSSR-C Development / Design	C/CPFF	NVESD/MTEQ : Ft. Belvoir	5.268	3.334		-		-		-		-	0.000	8.602	-
IGSSR-C Hardware / Software	C/CPFF	NVESD/MTEQ : Ft. Belvoir	1.865	0.299	May 2020	-		-		-		-	0.000	2.164	-
IGSSR-C Independent Software Assessment	MIPR	Carnegie Mellon University Software Engineering Institute : Pittsburgh, PA	0.818	-		-		-		-		-	0.000	0.818	-
Subtotal			7.951	3.633		-		-		-		-	0.000	11.584	N/A
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IGSSR-C Design Support	MIPR	RDECOM CERDEC : Fort Belvoir, VA	0.854	0.249		-		-		-		-	0.000	1.103	-
IGSSR-C Cyber / RAM Support	TBD	MITRE : Fort Belvoir	0.175	0.088		-		-		-		-	0.000	0.263	-
Subtotal			1.029	0.337		-		-		-		-	0.000	1.366	N/A

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

Events	Start		End	
	Quarter	Year	Quarter	Year
IGSSR-C Material Development Decision	1	2016	1	2016
IGSSR-C Risk Reduction	4	2015	4	2017
IGSSR-C Milestone B	4	2017	4	2017
IGSSR-C EMD Phase	4	2017	2	2021
IGSSR-C DT	4	2020	1	2021
IGSSR-C Operational Assessment (OA)	1	2021	1	2021
IGSSR-C Milestone C	3	2021	3	2021
IGSSR-C Authority to Operate	2	2022	3	2022
IGSSR-C Full Deployment Decision	4	2022	4	2022
IGSSR-C Full Deployment	4	2022	3	2026