

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Defense Counterintelligence and Security Agency **Date:** February 2020

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305128V I <i>Security and Investigative Activities</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	2.400	5.700	-	5.700	0.000	0.000	0.000	0.000	Continuing	Continuing
000: <i>Risk Rating Tool</i>	0.000	0.000	2.400	5.700	-	5.700	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Counterintelligence and Security Agency (DCSA) manages the Defense Vetting Directorate (DVD) for the entire government to support personnel vetting requirements. DVD has established itself as the mission authority for personnel security, continuous vetting, and insider threat for the federal government. Continuous Vetting (CV) program incorporates continual monitoring of individuals in support of the federal investigation standards for security clearances. This funding facilitates critical objectives the Risk Rating Tool and a Research & Innovation fund for future capabilities. DVD continues to develop the Risk Rating Tool (RRT) to focus data acquisition on individuals demonstrating high risk behaviors as identified by machine learning modeling approaches. DVD will expand, test, and evaluate RRT models for the entire DoD population. The second objective of the funds is to establish a Behavioral Research and Innovation fund to support such entities as PERSEREC to continue to understand cleared populations, validate and or inform policy offices, and support in the development of business rules with scientifically backed recommendations. Additional the funds in the out years will support prototypes, and pilots in Continuous Vetting to ensure an agile ability to test and evaluate state of the art technology that can support and off set existing Continuous Vetting processes in such areas as: Robotic Process Automation, Gamification, Bio-Metrics/Credibility, Augmented Reality, Machine Learning, Artificial Intelligence, Chatbots, and other state of the art technologies that can be developed, prototyped, and piloted.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	0.000	2.400	0.000	-	0.000
Current President's Budget	0.000	2.400	5.700	-	5.700
Total Adjustments	0.000	0.000	5.700	-	5.700
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• One Time Increase	-	-	5.700	-	5.700

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2021 Defense Counterintelligence and Security Agency										Date: February 2020		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0305128V / Security and Investigative Activities				Project (Number/Name) 000 / Risk Rating Tool			
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
000: Risk Rating Tool	0.000	0.000	2.400	5.700	-	5.700	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Defense Counterintelligence and Security Agency manages the Defense Vetting Directorate (DVD) for the entire government to support personnel vetting requirements. DVD has established itself as the mission authority for personnel security, vetting, and insider threat for the federal government. Continuous Evaluation (CE) program incorporates continual monitoring of individuals in support of the federal investigation standards for security clearances. This funding facilities two critical objectives the Risk Rating Tool and a Research & Innovation fund for future capabilities. DVD continues to develop the Risk Rating Tool (RRT) to focus data acquisition on individuals demonstrating high behaviors risk as identified by Machine Learning modeling approaches. DVD will expand, test, and evaluate RRT models for the entire DoD population. The second objective of the funds is to establish a Behavioral Research and Innovation fund to support such entities as PERSEREC to continue to understand cleared populations, validate and or inform policy offices, and support in the development of business rules with scientifically back recommendations. Additional the funds in out years will support prototypes, and pilots in Continuous Vetting to ensure an agile ability to test and evaluate state of the art technology that can support and off set existing Continuous Vetting processes in such areas as: Robotic Process Automation, Gamification, Bio-Metrics/Credibility, Augmented Reality, Machine Learning, Artificial Intelligence, Chatbots, and other state of the art technologies that can be developed, prototyped, and piloted.

DVD will utilize the Risk Rating Tool models to identify individuals with high risk stressors mapped to the 13 Adjudicative guidelines. Use of the Risk Rating Tool for case management and enrollment into High, Medium, Low Continuous Vetting Tier management is projected to generate cost avoidance in data acquisition by focusing resources on high risks rather than a randomly selected process. Execution of small scale prototypes or pilots will facilitate demonstrating value added before full scale integration, ensuring funds are not executed on an effort that cannot scale or meet all requirements.

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

	FY 2019	FY 2020	FY 2021
Title: RRT	-	2.400	5.700
FY 2020 Plans:			
1. RRT. Continue development of RRT models with integration of results in future system of use with the National Background Investigation System.			
2. Expansion of population to support full DoD Eligible personnel			
3. Expansion of data sets incorporating data currently utilized in systems such as DISS, and MIRADOR			
FY 2021 Plans:			
1. RRT. Continue development of RRT models with integration of results in future system of use with the National Background Investigation System.			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2021 Defense Counterintelligence and Security Agency		Date: February 2020
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0305128V / <i>Security and Investigative Activities</i>	Project (Number/Name) 000 / <i>Risk Rating Tool</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
2. Establishment of a Research & innovation Fund for Behavioral Research and policy impacts/recommendations as well as state of the art testing and evaluation of capabilities that can support continuous vetting and provide cost savings <i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Support prototypes, and pilots in Continuous Vetting to ensure an agile ability to test and evaluate state of the art technology that can support and off set existing Continuous Vetting processes in such areas as: Robotic Process Automation, Gamification, Bio-Metrics/Credibility, Augmented Reality, Machine Learning, Artificial Intelligence, Chatbots, and other state of the art technologies that can be developed, prototyped, and piloted.			
Title: NA	0.000	-	-
Accomplishments/Planned Programs Subtotals	0.000	2.400	5.700

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

N/A

Remarks

D. Acquisition Strategy

N/A

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2021 Defense Counterintelligence and Security Agency		Date: February 2020
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0305128V / <i>Security and Investigative Activities</i>	Project (Number/Name) 000 / <i>Risk Rating Tool</i>

FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
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>Risk Rating Tool</i>	
Production and Deployment	████████████████████

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2021 Defense Counterintelligence and Security Agency		Date: February 2020
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0305128V / <i>Security and Investigative Activities</i>	Project (Number/Name) 000 / <i>Risk Rating Tool</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Risk Rating Tool</i>				
Production and Deployment	3	2020	4	2021