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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0603260F I Intelligence Advanced Development							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	5.598	5.652	5.568	0.000	5.568	5.672	5.770	5.891	5.997	Continuing	Continuing
64536A: INTELLIGENCE EXPLOITATION TOOLS (IET)	-	4.442	4.488	4.421	0.000	4.421	4.503	4.580	4.676	4.760	Continuing	Continuing
64537A: INTELLIGENCE ANALYSIS CAPABILITIES (IAC)	-	1.156	1.164	1.147	0.000	1.147	1.169	1.190	1.215	1.237	Continuing	Continuing

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

Intelligence Advanced Development (IAD) develops and demonstrates technology required to support warfighter needs for timely all source intelligence information. IAD supports global awareness, consistent battlespace knowledge, precision information, and the execution of time critical missions. IAD focuses on enhancing defense intelligence capabilities by exploring new and innovative ways to develop software tools which support the Anti-Access/Area Denial (A2/AD) Contested/Congested Degraded Operations (CDO) problem set. IAD projects provide improved on-time information to the warfighter using new and existing data sources, streamlining data analysis, thus reducing the footprint required, and enhancing performance. The Air Force Research Lab, Rome Research Site, Information Intelligence Systems and Analysis Division (AFRL/RIE), works directly with users, employing evolutionary approaches and integrating finished modules directly into the field. The programs are oriented toward specific shortfalls and deficiencies as documented by the Major Commands (MAJCOMS), unified commands, and Intelligence organizations in their mission and functional area plans. This PE expedites technology transition from the laboratory to operational users via rapid prototyping. It is focused on technology insertion to correct AF intelligence deficiencies at the tactical and operational levels. The PE bridges the transition of new technologies from Advance Technology Demonstrations (ATDs) and Integrated Technology Thrust Programs (ITTPs) into current/new systems, and supports the associated Defense Technology Objectives (DTOs). IAD may also reallocate existing resources to support out-of-cycle new/updated warfighter requirements.

Requirements for this PE are identified and prioritized by Air Combat Command (ACC). Development of new/improved capabilities to meet the requirements is managed by AFRL/RIE. Prototype products, usually in the form of software, are provided to users in incremental capability spirals for operational environment evaluation.

This program is Budget Activity 4, Advanced Component Development and Prototype because efforts are necessary to evaluate integrated technologies, representative modes or prototypes systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force				Date: February 2018	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0603260F I Intelligence Advanced Development			
B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	5.598	5.652	5.611	0.000	5.611
Current President's Budget	5.598	5.652	5.568	0.000	5.568
Total Adjustments	0.000	0.000	-0.043	0.000	-0.043
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-0.043	0.000	-0.043

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development				Project (Number/Name) 64536A / INTELLIGENCE EXPLOITATION TOOLS (IET)			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
64536A: INTELLIGENCE EXPLOITATION TOOLS (IET)	-	4.442	4.488	4.421	0.000	4.421	4.503	4.580	4.676	4.760	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The mission is to develop prototypes which encompass several areas of intelligence exploitation including the advancement of all source correlation and fusion for the intelligence analyst. The intent is to enhance the overall situational awareness for Air Force, DoD, and Coalition groups which have requirements to correlate various sources of intelligence information, including Communications Intelligence (COMINT), Electronics Intelligence (ELINT), Imagery Intelligence (IMINT), Geospatial Intelligence (GEOINT), Measurement and Signature Intelligence (MASINT), Signals Intelligence (SIGINT), Open-source Intelligence (OSINT) and others, in a timely manner. IET may reallocate existing resources to support out-of-cycle new/updated warfighter requirements.

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

	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<b>Title:</b> Intelligence Exploitation Tools (IET)	4.442	4.488	4.421
<p><b>Description:</b> IET addresses the accurate and timely interpretation of various Intelligence data sources (such as digital imagery, video, documents, and signals) by developing and evaluating methods to manipulate and overlay the disparate products using various imagery, visualization and timeline techniques. This provides the analyst with the ability to fuse multiple intelligence sources for improved situational awareness and to better detect anomalies. Cross domain tools are explored as a means to view and provide data at multiple classification levels. In addition, methods to improve analysis of current and future foreign weapon systems are developed. IET provides enhanced warning and accuracy to allow national and military authorities a greater range of options to avert, diminish or control a crisis.</p> <p><b>FY 2018 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continuing development of software focused on improving the way computers and application services supports intelligence analysts through the use of cognitive systems</li> <li>- Completing development of a capability to enable the detection, geo-location, and tracking of complex wideband and low probability of intercept emitters; improve reporting timeliness and accuracy of worldwide ELINT intercept data</li> <li>- Completing development of a capability to enable the intelligence analyst to conduct search and discovery either by visual pattern recognition/feature extraction or text-based using queries</li> </ul>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2019 Air Force			<b>Date:</b> February 2018		
<b>Appropriation/Budget Activity</b> 3600 / 4		<b>R-1 Program Element (Number/Name)</b> PE 0603260F / <i>Intelligence Advanced Development</i>		<b>Project (Number/Name)</b> 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>			<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<ul style="list-style-type: none"> <li>- Completing development of a framework designed to expose media tools, data, products, workflow and analytical services to the DoD and Intelligence Community (IC)</li> <li>- Continuing development of automated methods that aid in the systematic, continuous, and comprehensive assessment of technical topic, concepts and emergence using information found in open source searches</li> <li>- Continuing enabling Distributed Common Ground Station (DCGS) enterprise support of high-altitude SIGINT missions and execution on NSANet</li> <li>- Continuing development of a software capability to exploit and fuse open source information with DCGS related sources</li> <li>- Continuing development of a Feature Extractor to assist automation of Tech ELINT screening</li> <li>- Continuing development and integration of space based modeling capabilities into the Integrated Many on Many mission planning tool</li> <li>- Continuing implementation of operational metadata capability for DCGS SIGINT collection systems</li> <li>- Continuing user evaluations and prototype releases</li> </ul>					
<b>FY 2019 Plans:</b>					
<ul style="list-style-type: none"> <li>- Will complete development of software focused on improving the way computers and application services supports intelligence analysts through the use of cognitive systems</li> <li>- Will complete development of automated methods that aid in the systematic, continuous, and comprehensive assessment of technical topic, concepts and emergence using information found in open source searches</li> <li>- Will continue enabling DCGS enterprise support of high-altitude SIGINT missions and execution on NSANet</li> <li>- Will complete development of a software capability to exploit and fuse open source information with DCGS related sources</li> <li>- Will complete development of a Feature Extractor to assist automation of Tech ELINT screening</li> </ul>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2019 Air Force		<b>Date:</b> February 2018	
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603260F / <i>Intelligence Advanced Development</i>	<b>Project (Number/Name)</b> 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2017</b>	<b>FY 2018</b>
<ul style="list-style-type: none"> <li>- Will continue development and integration of space based modeling capabilities into the Integrated Many on Many mission planning tool</li> <li>- Will continue implementation of operational metadata capability for DCGS SIGINT collection systems</li> <li>- Will continue user evaluations and prototype releases evaluations and prototype releases</li> </ul>			
<b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> Funding decreased due to pricing			
<b>Accomplishments/Planned Programs Subtotals</b>		4.442	4.488
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A			
<b>Remarks</b>			
<b>D. Acquisition Strategy</b> Requirements for new/improved techniques for operational employment of simulation models are identified and prioritized by ACC. Development of the new/improved capabilities to meet these requirements is managed by Air Force Research Laboratory (AFRL) Rome Research Site. Prototype products (usually software), once evaluated by the users, are transitioned from the laboratory to the operational community in spirals. All major contracts within this project are awarded after full and open competition.			
<b>E. Performance Metrics</b> Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.			

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2019 Air Force												<b>Date:</b> February 2018			
<b>Appropriation/Budget Activity</b> 3600 / 4						<b>R-1 Program Element (Number/Name)</b> PE 0603260F / <i>Intelligence Advanced Development</i>				<b>Project (Number/Name)</b> 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>					
<b>Product Development (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</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>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Intelligence Exploitation Tools (IET)	Various	Various : Various	-	4.180	Jan 2017	4.073	Jan 2018	4.009	Jan 2019	-		4.009	Continuing	Continuing	-
<b>Subtotal</b>			-	4.180		4.073		4.009		-		4.009	Continuing	Continuing	N/A
<b>Management Services (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</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>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
PMA	Various	AFRL - Information Directorate : Rome, NY	-	0.262	Oct 2016	0.415	Oct 2017	0.412	Oct 2018	-		0.412	Continuing	Continuing	-
<b>Subtotal</b>			-	0.262		0.415		0.412		-		0.412	Continuing	Continuing	N/A
			<b>Prior Years</b>	<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			-	4.442		4.488		4.421		-		4.421	Continuing	Continuing	N/A
<b>Remarks</b>															

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Exhibit R-4, RDT&amp;E Schedule Profile: PB 2019 Air Force

Date: February 2018

## Appropriation/Budget Activity

3600 / 4

## R-1 Program Element (Number/Name)

PE 0603260F / Intelligence Advanced Development

## Project (Number/Name)

64536A / INTELLIGENCE EXPLOITATION TOOLS (IET)

	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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
<b>EIT</b>																												
IET Development																												
Initiate development of software capability to ingest open source information and fusing with DCGS related sources																												
Initiate development of Feature Extractor to assist automation of Tech ELINT screening																												
Initiate development and integration of space based systems modeling capabilities into IMOM planning tool																												
Initiate implementation of operational metadata capability for DCGS SIGINT collection systems																												
FY17 IET User Evaluations																												
FY17 IET Prototype Releases																												
Complete Development of Capability for Quantitative Mission Assessment and Integrating Future ISR and Combat Mission Capabilities																												
Complete development of Rivet Joint processing software to enable collecting current/future SIGINT metadata																												
FY18 IET User Evaluations																												
FY18 IET Prototype Releases																												
Complete development of search and discovery either by visual pattern recognition/ feature extraction or text-based using queries.																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force																Date: February 2018												
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development								Project (Number/Name) 64536A / INTELLIGENCE EXPLOITATION TOOLS (IET)										
	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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
Complete development of software focused on the use of cognitive systems																												
FY19 IET User Evaluations																												
FY20 IET Requirements Data Call																												
FY19 IET Prototype Releases																												
FY20 IET User Evaluations																												
FY20 IET Prototype Releases																												
FY21 IET User Evaluations																												
FY21 IET Prototype Releases																												
FY22 IET Requirements Data Call																												
FY22 IET User Evaluations																												
FY22 IET Prototype Releases																												
FY23 IET Requirements Data Call																												
FY23 IET User Evaluations																												
FY23 IET Prototype Releases																												



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2019 Air Force			<b>Date:</b> February 2018
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603260F / <i>Intelligence Advanced Development</i>	<b>Project (Number/Name)</b> 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>	

**Schedule Details**

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>EIT</i></b>				
IET Development	1	2017	4	2022
Initiate development of software capability to ingest open source information and fusing with DCGS related sources	1	2017	4	2019
Initiate development of Feature Extractor to assist automation of Tech ELINT screening	1	2017	4	2019
Initiate development and integration of space based systems modeling capabilities into IMOM planning tool	1	2017	4	2019
Initiate implementation of operational metadata capability for DCGS SIGINT collection systems	1	2017	4	2019
FY17 IET User Evaluations	2	2017	2	2017
FY17 IET Prototype Releases	4	2017	4	2017
Complete Development of Capability for Quantitative Mission Assessment and Integrating Future ISR and Combat Mission Capabilities	1	2017	4	2017
Complete development of Rivet Joint processing software to enable collecting current/future SIGINT metadata	1	2017	4	2017
FY18 IET User Evaluations	2	2018	2	2018
FY18 IET Prototype Releases	4	2018	4	2018
Complete development of search and discovery either by visual pattern recognition/feature extraction or text-based using queries.	1	2018	4	2018
Complete development of software focused on the use of cognitive systems	1	2018	4	2018
FY19 IET User Evaluations	2	2019	2	2019
FY20 IET Requirements Data Call	2	2019	2	2019
FY19 IET Prototype Releases	4	2019	4	2019

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force			Date: February 2018	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development		Project (Number/Name) 64536A / INTELLIGENCE EXPLOITATION TOOLS (IET)	
	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
FY20 IET User Evaluations	2	2020	2	2020
FY20 IET Prototype Releases	4	2020	4	2020
FY21 IET User Evaluations	2	2021	2	2021
FY21 IET Prototype Releases	4	2021	4	2021
FY22 IET Requirements Data Call	2	2022	2	2022
FY22 IET User Evaluations	2	2022	2	2022
FY22 IET Prototype Releases	4	2022	4	2022
FY23 IET Requirements Data Call	2	2023	2	2023
FY23 IET User Evaluations	2	2023	2	2023
FY23 IET Prototype Releases	4	2023	4	2023

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development				Project (Number/Name) 64537A / INTELLIGENCE ANALYSIS CAPABILITIES (IAC)			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
64537A: INTELLIGENCE ANALYSIS CAPABILITIES (IAC)	-	1.156	1.164	1.147	0.000	1.147	1.169	1.190	1.215	1.237	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The mission is to provide continuing development and upgrades of threat analysis capabilities to produce integrated, predictive air and space intelligence to enable military operations, force modernization decisions, and policy making. Products from IAC allow the Intelligence Analyst to accelerate and increase the accuracy of threat estimates and system descriptions to deployed operational forces. Each of the development projects within the IAC program portfolio transition technologies to the operational communities through the incremental release of upgraded versions over a period of years as development projects progress towards the final configuration. IAC may reallocate existing resources to support out-of-cycle new/ updated warfighter requirements.

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

	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<b>Title:</b> Intelligence Intelligence Analysis Capabilities (IAC) Development	1.156	1.164	1.147
<b>Description:</b> IAC develops tools and algorithms for Intelligence Analysts with the ability to produce accurate, predictive, relevant, and timely intelligence that supports client processes, operational planning, and mission execution. IAC develops new and upgraded analysis, modeling and simulation tools focused on intelligence production supporting AF operational and developmental all source analysis functions.			
<b>FY 2018 Plans:</b> <ul style="list-style-type: none"> <li>- Completing model development and updating the appropriate simulation capability to ensure more accurate release of the data sets to consumers of National Air and Space Intelligence Center intelligence models and resulting data sets.</li> <li>- Completing prototype development of an enterprise level solution (tools and procedures) that will allow the intelligence analyst to perform predictive intelligence analysis on new areas of interest</li> <li>- Initiating development of a query class prototype system that will enable users to search large volumes of disparate multimodal and multilingual data sources. This service will be accessible for use by DoD and IC cloud service architectures.</li> <li>- Initiating development of a prototype Modeling and Simulation tool to address the need for improved threat Integrated Air Defense System (IADS) passive detection/tracking and combat identification.</li> </ul>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2019 Air Force		<b>Date:</b> February 2018	
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603260F / <i>Intelligence Advanced Development</i>	<b>Project (Number/Name)</b> 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2017</b>	<b>FY 2018</b>
<p>- Continuing user evaluations and prototype releases.</p> <p><b>FY 2019 Plans:</b></p> <p>- Will continue development of a query class prototype system that will enable users to search large volumes of disparate multimodal and multilingual data sources. This service will be accessible for use by DoD and IC cloud service architectures.</p> <p>- Will continue development of a prototype Modeling and Simulation tool to address the need for improved threat IADS passive detection/tracking and combat identification.</p> <p>- Will develop Command, Control, Communication, and Computer database and visualization capability for intelligence operators.</p> <p>- Will develop a prototype for providing improved Electronic Warfare (EW) information to operational users by leveraging the capabilities of the modernized, national EW databases. This will include signal identification, waveform ambiguity detection and emitter descriptions across all three national EW databases.</p> <p>- Will continue user evaluations and prototype releases.</p> <p><b>FY 2018 to FY 2019 Increase/Decrease Statement:</b></p> <p>- Funding decreased due to pricing</p>			
<b>Accomplishments/Planned Programs Subtotals</b>		1.156	1.164
<b>C. Other Program Funding Summary (\$ in Millions)</b>			
N/A			
<b>Remarks</b>			
<b>D. Acquisition Strategy</b>			
Requirements of new/upgraded intelligence analysis tools are identified and prioritized by the ACC. Development of capabilities to meet these requirements is managed by AFRL Rome Research Site. Prototype products (usually software), once evaluated by the users, are fielded in incremental capability spirals. All major contracts within this project are awarded after full and open competition.			
<b>E. Performance Metrics</b>			
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.			

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2019 Air Force</b>												<b>Date:</b> February 2018			
<b>Appropriation/Budget Activity</b> 3600 / 4				<b>R-1 Program Element (Number/Name)</b> PE 0603260F / <i>Intelligence Advanced Development</i>				<b>Project (Number/Name)</b> 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>							
<b>Product Development (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</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>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
IAC	Various	Various : Various	-	1.000	Oct 2016	1.075	Oct 2017	1.006	Oct 2018	-		1.006	Continuing	Continuing	-
<b>Subtotal</b>			-	1.000		1.075		1.006		-		1.006	Continuing	Continuing	N/A
<b>Management Services (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</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>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
PMA	Various	AFRL - Information Directorate : Rome, NY	-	0.156	Oct 2016	0.089	Oct 2017	0.141	Oct 2018	-		0.141	Continuing	Continuing	-
<b>Subtotal</b>			-	0.156		0.089		0.141		-		0.141	Continuing	Continuing	N/A
			<b>Prior Years</b>	<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			-	1.156		1.164		1.147		-		1.147	Continuing	Continuing	N/A
<b>Remarks</b>															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2019 Air Force			<b>Date:</b> February 2018		
<b>Appropriation/Budget Activity</b> 3600 / 4		<b>R-1 Program Element (Number/Name)</b> PE 0603260F / <i>Intelligence Advanced Development</i>			<b>Project (Number/Name)</b> 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>

	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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
<b>IAC</b>																												
IAC Development																												
FY17 IAC User Evaluations																												
FY17 IAC Prototype Releases																												
FY18 IAC User Evaluations																												
FY18 IAC Prototype Releases																												
FY19 IAC User Evaluations																												
FY21 IAC Requirements Data Call																												
FY19 IAC Prototype Releases																												
FY20 IAC User Evaluations																												
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FY21 IAC Prototype Releases																												
FY22 IAC Requirements Data Call																												
FY22 IAC User Evaluations																												
FY22 IAC Prototype Releases																												
FY23 IAC User Evaluations																												
FY23 IAC Prototype Releases																												

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2019 Air Force			<b>Date:</b> February 2018
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603260F / <i>Intelligence Advanced Development</i>	<b>Project (Number/Name)</b> 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>	

**Schedule Details**

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>IAC</b>				
IAC Development	1	2017	4	2023
FY17 IAC User Evaluations	2	2017	2	2017
FY17 IAC Prototype Releases	4	2017	4	2017
FY18 IAC User Evaluations	2	2018	2	2018
FY18 IAC Prototype Releases	4	2018	4	2018
FY19 IAC User Evaluations	2	2019	2	2019
FY21 IAC Requirements Data Call	2	2020	2	2020
FY19 IAC Prototype Releases	4	2019	4	2019
FY20 IAC User Evaluations	2	2020	2	2020
FY20 IAC Prototype Releases	4	2020	4	2020
FY21 IAC User Evaluations	2	2021	2	2021
FY21 IAC Prototype Releases	4	2021	4	2021
FY22 IAC Requirements Data Call	2	2022	2	2022
FY22 IAC User Evaluations	2	2022	2	2022
FY22 IAC Prototype Releases	4	2022	4	2022
FY23 IAC User Evaluations	2	2023	2	2023
FY23 IAC Prototype Releases	4	2023	4	2023