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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	5.408	5.032	5.598	0.000	5.598	5.636	5.609	5.712	5.814	Continuing	Continuing
64536A: <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>	-	4.298	3.991	4.442	0.000	4.442	4.475	4.453	4.535	4.615	Continuing	Continuing
64537A: <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>	-	1.110	1.041	1.156	0.000	1.156	1.161	1.156	1.177	1.199	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 the 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 Prototypes (ACD&P) 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 2017 Air Force	Date: February 2016
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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>
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B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	5.408	5.032	5.654	0.000	5.654
Current President's Budget	5.408	5.032	5.598	0.000	5.598
Total Adjustments	0.000	0.000	-0.056	0.000	-0.056
• 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	-0.056	0.000	-0.056

Change Summary Explanation

- FY17: \$56K "Inflation rate reduction for Non-pay/non-fuel".

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force										Date: February 2016		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>				Project (Number/Name) 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
64536A: <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>	-	4.298	3.991	4.442	0.000	4.442	4.475	4.453	4.535	4.615	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 COMINT, ELINT, IMINT, GEOINT, MASINT, SIGINT, 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)

	FY 2015	FY 2016	FY 2017
Title: Intelligence Exploitation Tools (IET)	4.298	3.991	4.442
<p>Description: 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>FY 2015 Accomplishments:</p> <ul style="list-style-type: none"> - Completed development, conducted user assessment, and released final prototype of software that provides automated screening of technical ELINT data through further development of applications in signals characterization and database matching algorithms - Started development of software focused on improving the way computers and application services supports intelligence analysts through the use of cognitive systems - Continued development of 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 Electronics Intelligence (ELINT) intercept data 			

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<ul style="list-style-type: none"> - Started development of capability to enable the intelligence analyst to conduct search and discovery either by visual pattern recognition/feature extraction or text-based using queries. <ul style="list-style-type: none"> -- This effort will create structured content from the recognition of objects, features and patterns contained within images/video - Started expanding software currently deployed on RIVET JOINT processor to enable collecting current and future SIGINT metadata - Continued development of a framework designed to expose media tools, data, products, workflow and analytical services to the DoD and IC - Started development of a capability for quantitative mission assessment and integrating future ISR and combat mission capabilities - Completed development of software to perform high fidelity analysis of threat designs and potential alternatives in the command and control of an Integrated Air Defense Systems (IADS), providing critical insight into the synergistic effects of combined systems and their vulnerabilities - Continued development of automated methods that aid in the systematic, continuous, and comprehensive assessment of technical topic, concepts and emergence using information found in the published scientific, technical, and patent literature, message traffic, gray literature, conference papers, etc. - Started enabling DCGS enterprise support of high-altitude SIGINT missions and execution on NSANet <p>FY 2016 Plans:</p> <ul style="list-style-type: none"> - Continuing development of software focused on improving the way computers and application services supports intelligence analysts through the use of cognitive systems - Continuing development of 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 Electronics Intelligence (ELINT) intercept data - Continuing development of capability to enable the intelligence analyst to conduct search and discovery either by visual pattern recognition/feature extraction or text-based using queries. <ul style="list-style-type: none"> -- This effort will create structured content from the recognition of objects, features and patterns contained within images/video 				

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<ul style="list-style-type: none"> - Continuing to expand software currently deployed on RIVET JOINT processor to enable collecting current and future SIGINT metadata - Continuing development of a framework designed to expose media tools, data, products, workflow and analytical services to the DoD and IC - Continuing development of a capability for quantitative mission assessment and integrating future ISR and combat mission capabilities - Continuing development of automated methods that aid in the systematic, continuous, and comprehensive assessment of technical topic, concepts and emergence using information found in the published scientific, technical, and patent literature, message traffic, gray literature, conference papers, etc. - Continue enabling DCGS enterprise support of high-altitude SIGINT missions and execution on NSANet <p>FY 2017 Plans:</p> <ul style="list-style-type: none"> - Will continue development of software focused on improving the way computers and application services supports intelligence analysts through the use of cognitive systems - Will continue development of 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 Electronics Intelligence (ELINT) intercept data - Will continue development of capability to enable the intelligence analyst to conduct search and discovery either by visual pattern recognition/feature extraction or text-based using queries. <ul style="list-style-type: none"> -- This effort will create structured content from the recognition of objects, features and patterns contained within images/video - Will complete expanding software currently deployed on RIVET JOINT processor to enable collecting current and future SIGINT metadata - Will continue development of a framework designed to expose media tools, data, products, workflow and analytical services to the DoD and IC 			

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
- Will complete development of a capability for qualitative mission assessment and lays a framework for integrating future ISR and combat mission capabilities into the assessment framework			
- Will continue development of automated methods that aid in the systematic, continuous, and comprehensive assessment of technical topic, concepts and emergence using information found in the published scientific, technical, and patent literature, message traffic, gray literature, conference papers, etc.			
- Will continue enabling DCGS enterprise support of high-altitude SIGINT missions and execution on NSANet			
- Will initiate development of a software capability to exploit and fuse open source information with DCGS related sources			
- Will initiate development of a Feature Extractor to assist automation of Tech ELINT screening			
- Will initiate development and integration of space based modeling capabilities into the Integrated Many on Many (IMOM) mission planning tool			
- Will initiate implementation of operational metadata acquisition and aggregation capability for DCGS SIGINT collection systems			
Accomplishments/Planned Programs Subtotals	4.298	3.991	4.442

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-

Remarks

D. Acquisition Strategy

Requirements for new/improved techniques for operational employment of simulation models are identified and prioritized by the Air Combat Command (ACC). Development of the new/improved capabilities to meet these requirements is managed by AF Research Laboratory (Rome Research Site). Prototype products (usually software), once evaluated by the users, are transitioned from the laboratory to operational community in spirals. All major contracts within this project are awarded after full and open competition.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>

E. Performance Metrics

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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force												Date: February 2016				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
3600 / 4				PE 0603260F / Intelligence Advanced Development				64536A / INTELLIGENCE EXPLOITATION TOOLS (IET)								
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Intelligence Exploitation Tools (IET)	Various	Various : Various	-	3.924	Jan 2015	3.835	Jan 2016	4.180	Jan 2017	0.000		4.180	Continuing	Continuing	TBD	
Subtotal			-	3.924		3.835		4.180		0.000		4.180	-	-	-	
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Subtotal			-	-		-		-		-		-	-	-	-	
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Subtotal			-	-		-		-		-		-	-	-	-	
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
PMA	Various	AFRL - Information Directorate : Rome, NY	-	0.374	Oct 2014	0.156	Oct 2015	0.262	Oct 2016	0.000		0.262	Continuing	Continuing	TBD	
Subtotal			-	0.374		0.156		0.262		0.000		0.262	-	-	-	
Project Cost Totals			-	4.298		3.991		4.442		0.000		4.442	-	-	-	
Remarks																

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</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
Will initiate development of Feature Extractor to assist automation of Tech ELINT screening									■																			
Will initiate development and integration of space based systems modeling capabilities into IMOM planning tool									■																			
Will initiate implementation of operational metadata capability for DCGS SIGINT collection systems									■																			
FY17 IET User Evaluations										■																		
FY17 IET Prototype Releases												■																
Will Complete Development of Capability for Quantitative Mission Assessment and Integrating Future ISR and Combat Mission Capabilities												■																
Will Complete Expanding Rivet Joint Processing Software to Enable Collecting Current/Future SIGINT Metadata												■																
FY19 IET Requirements Data Call											■																	
FY18 IET User Evaluations													■															
FY18 IET Prototype Releases															■													
FY19 IET User Evaluations																■												
FY21 IET Requirements Data Call																■												
FY19 IET Prototype Releases																			■									
FY20 IET User Evaluations																				■								
FY20 IET Prototype Releases																							■					
FY21 IET User Evaluations																											■	
FY21 IET Prototype Releases																												■

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
IET Development	1	2015	4	2021
Started Development of Cognitive Systems Software for Intel Analyst	1	2015	1	2015
Started Development of Search and Discovery Capability Using Visual Pattern Recognition/Feature Extraction or Text-Based Queries	1	2015	1	2015
Started Expanding Rivet Joint Processing Software to Enable Collecting Current/Future SIGINT Metadata	1	2015	1	2015
Started Development of Capability for Quantitative Mission Assessment and Integrating Future ISR and Combat Mission Capabilities	1	2015	1	2015
FY15 IET User Evaluations	2	2015	2	2015
FY17 IET Requirements Data Call	2	2015	2	2015
Completed Development of Automated Technical ELINT Screening Software	4	2015	4	2015
Completed Development of Software to Perform High Fidelity Analysis of Threat Designs and Potential Alternatives in the Command and Control of an Integrated Air Defense System (IADS)	4	2015	4	2015
FY16 IET User Evaluations	2	2016	2	2016
FY16 IET Prototype Releases	4	2016	4	2016
Will initiate development of software capability to ingest open source information and fusing with DCGS related sources	1	2017	1	2017
Will initiate development of Feature Extractor to assist automation of Tech ELINT screening	1	2017	1	2017
Will initiate development and integration of space based systems modeling capabilities into IMOM planning tool	1	2017	1	2017
Will initiate implementation of operational metadata capability for DCGS SIGINT collection systems	1	2017	1	2017

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
FY17 IET User Evaluations	2	2017	2	2017
FY17 IET Prototype Releases	4	2017	4	2017
Will Complete Development of Capability for Quantitative Mission Assessment and Integrating Future ISR and Combat Mission Capabilities	4	2017	4	2017
Will Complete Expanding Rivet Joint Processing Software to Enable Collecting Current/ Future SIGINT Metadata	4	2017	4	2017
FY19 IET Requirements Data Call	2	2017	2	2017
FY18 IET User Evaluations	2	2018	2	2018
FY18 IET Prototype Releases	4	2018	4	2018
FY19 IET User Evaluations	2	2019	2	2019
FY21 IET Requirements Data Call	2	2019	2	2019
FY19 IET Prototype Releases	4	2019	4	2019
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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force										Date: February 2016		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>				Project (Number/Name) 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
64537A: <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>	-	1.110	1.041	1.156	0.000	1.156	1.161	1.156	1.177	1.199	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)

	FY 2015	FY 2016	FY 2017
Title: Intelligence Analysis Capabilities (IAC)	1.110	1.041	1.156
<p>Description: 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.</p> <p>FY 2015 Accomplishments:</p> <ul style="list-style-type: none"> - Released first prototype and initiated development of second prototype of capability to add a space communications modeling capability to the previously fielded terrestrial communications focused tool -- This effort will complete modeling of an adversary's total Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) system and assist nomination of terrestrial and space targets - Started development of a robust prototype of an enterprise level solution (tools and procedures) that will allow the intelligence analyst to perform predictive intelligence analysis on new areas of interest <p>FY 2016 Plans:</p> <ul style="list-style-type: none"> - Releasing second prototype and initiating development of third prototype of capability to add a space communications modeling capability to the previously fielded terrestrial communications focused TEL-SCOPE tool 			

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Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
- Releasing first prototype and initiating development of second prototype of an enterprise level solution (tools and procedures) that will allow the intelligence analyst to perform predictive intelligence analysis on new areas of interest			
<i>FY 2017 Plans:</i>			
- Will release third prototype and will initiate development of fourth prototype of capability to add a space communications modeling capability to the previously fielded terrestrial communications focused TEL-SCOPE tool			
- Will release second prototype and will initiate development of third prototype of an enterprise level solution (tools and procedures) that will allow the intelligence analyst to perform predictive intelligence analysis on new areas of interest			
Accomplishments/Planned Programs Subtotals	1.110	1.041	1.156

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-

Remarks

D. Acquisition Strategy

Requirements of new/upgraded intelligence analysis tools are identified and prioritized by the Air Combat Command (ACC). Development of capabilities to meet these requirements is managed by the Air Force Research Laboratory (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.

E. Performance Metrics

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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)						Project (Number/Name)					
3600 / 4				PE 0603260F / Intelligence Advanced Development						64537A / INTELLIGENCE ANALYSIS CAPABILITIES (IAC)					
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
IAC	Various	Various : Various	-	0.975	Nov 2014	1.000	Oct 2015	1.000	Oct 2016	0.000		1.000	Continuing	Continuing	TBD
Subtotal			-	0.975		1.000		1.000		0.000		1.000	-	-	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Subtotal			-	-		-		-		-		-	-	-	-
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
PMA	Various	AFRL - Information Directorate : Rome, NY	-	0.135	Oct 2014	0.041	Oct 2015	0.156	Oct 2016	0.000		0.156	Continuing	Continuing	TBD
Subtotal			-	0.135		0.041		0.156		0.000		0.156	-	-	-
Project Cost Totals			-	1.110		1.041		1.156		0.000		1.156	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>

	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
IAC Development																												
Released First Prototype and Initiated Development of Second Prototype of Capability to Add a Space Communications Modeling Capability to Existing Tool																												
Started Development of Enterprise Level Solution to Perform Predictive Intelligence Analysis																												
FY15 IAC User Evaluations																												
FY17 IAC Requirements Data Call																												
FY15 IAC Prototype Releases																												
FY16 IAC User Evaluations																												
Releasing First Prototype and Initiating Development of Second Prototype of an Enterprise Level Solution to Perform Predictive Intelligence Analysis																												
Released Second Prototype and Initiated Development Third Prototype of Capability to Add a Space Communications Modeling Capability to Existing Tool																												
FY16 IAC Prototype Releases																												
FY17 IAC User Evaluations																												
FY19 IAC Requirements Data Call																												
Releasing Second Prototype and Initiating Development of Third Prototype of an Enterprise Level Solution to Perform Predictive Intelligence Analysis																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</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				
Released Third Prototype and Initiated Development of Fourth Prototype of Capability to Add a Space Communications Modeling Capability to Existing Tool											■																					
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																											■					
FY20 IAC Prototype Releases																												■				
FY21 IAC User Evaluations																															■	
FY21 IAC Prototype Releases																																■

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
IAC Development	1	2015	4	2021
Released First Prototype and Initiated Development of Second Prototype of Capability to Add a Space Communications Modeling Capability to Existing Tool	1	2015	1	2015
Started Development of Enterprise Level Solution to Perform Predictive Intelligence Analysis	1	2015	1	2015
FY15 IAC User Evaluations	2	2015	2	2015
FY17 IAC Requirements Data Call	2	2015	2	2015
FY15 IAC Prototype Releases	4	2015	4	2015
FY16 IAC User Evaluations	2	2016	2	2016
Releasing First Prototype and Initiating Development of Second Prototype of an Enterprise Level Solution to Perform Predictive Intelligence Analysis	2	2016	2	2016
Released Second Prototype and Initiated Development Third Prototype of Capability to Add a Space Communications Modeling Capability to Existing Tool	3	2016	3	2016
FY16 IAC Prototype Releases	4	2016	4	2016
FY17 IAC User Evaluations	2	2017	2	2017
FY19 IAC Requirements Data Call	2	2017	2	2017
Releasing Second Prototype and Initiating Development of Third Prototype of an Enterprise Level Solution to Perform Predictive Intelligence Analysis	2	2017	2	2017
Released Third Prototype and Initiated Development of Fourth Prototype of Capability to Add a Space Communications Modeling Capability to Existing Tool	3	2017	3	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

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
FY21 IAC Requirements Data Call	2	2019	2	2019
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

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