

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>
--	---

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	4.013	3.866	3.983	-	3.983	4.352	4.334	8.814	8.973	Continuing	Continuing
643479: <i>Advanced Sensor Exploitation</i>	-	0.773	0.401	0.552	-	0.552	0.569	0.734	1.750	1.782	Continuing	Continuing
643480: <i>Automated Imagery Exploitation</i>	-	0.919	2.452	1.575	-	1.575	1.200	0.990	2.006	2.042	Continuing	Continuing
643481: <i>Knowledge Based Tech For Intelligence</i>	-	1.596	0.542	0.790	-	0.790	1.200	1.740	3.520	3.583	Continuing	Continuing
643482: <i>Science & Tech Intelligence Methodology</i>	-	0.725	0.471	1.066	-	1.066	1.383	0.870	1.538	1.566	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

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 projects provide better on-time information to the warfighter using new and existing data sources, streamlining data analysis, reducing footprint required, and extending life of sensors in place and enhancing performance. The Air Force Research Lab, Rome Research Site, Information and Intelligence Exploitation 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, focusing on technology insertion correcting AF intelligence deficiencies at the tactical and operational levels. This PE bridges the technology transition from Advanced Technology Demonstrations (ATDs) and Integrated Technology Thrust Programs (ITTPs) into current/new systems, and also 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 gathered and prioritized by the Air Force Intelligence, Surveillance, and Reconnaissance Agency (AF ISR Agency). Development of new/improved capabilities to meet the requirements is managed by AFRL/RIE. Prototype products, usually in the form of software, once evaluated by the users, are transferred to the operational environment.

This Program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force				DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0603260F: Intelligence Advanced Development			
BA 4: Advanced Component Development & Prototypes (ACD&P)					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	4.013	3.866	3.983	-	3.983
Current President's Budget	4.013	3.866	3.983	-	3.983
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	0.000			
• Congressional Directed Reductions	-	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	-	0.000			
• Congressional Directed Transfers	-	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.000	-	0.000

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development				PROJECT 643479: Advanced Sensor Exploitation			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
643479: Advanced Sensor Exploitation	-	0.773	0.401	0.552	-	0.552	0.569	0.734	1.750	1.782	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note In FY2014 643479, Advanced Sensor Exploitation includes a new start effort.												
A. Mission Description and Budget Item Justification The project objectives are to develop, demonstrate and evaluate a near-real-time all source correlation/fusion capability by applying state-of-the-art data processing techniques for the receipt, correlation, templating, and analysis of battlefield information. Prototypes will be developed in an open systems architecture environment allowing for the greatest efficiency in terms of integrating or interfacing with other systems. There are Air Force, DoD, and Coalition needs to correlate various sources of intelligence information (Communications Intelligence - COMINT, Electronic Intelligence - ELINT, Imagery Intelligence - IMINT and Measurement and Signature Intelligence - MASINT) within seconds/minutes vs. hours/days with current manual and semi-automated methods. The project includes development of data correlation and predictive intelligence algorithms as well as target analysis and prioritization, air order of battle update, and tactical analysis techniques. This computerized approach will speed up the correlation of data from diverse sources of intelligence information, including COMINT, ELINT, IMINT and MASINT; providing faster situational awareness and threat assessment, and replace manual systems with automated capabilities. Activities also include studies and analysis to support both current program planning and execution and future program planning.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Smart Target Folders									0.765	0.395	0.150	
Description: Develops capability to automatically and continuously develop target folders, a cohesive picture of adversaries and their intent, in order to provide actionable intel to operations component.												
FY 2012 Accomplishments: Released prototype 1.0; initiated new prototype Development based on user evaluation of prototype release 1.0.												
FY 2013 Plans: Continuing prototype development and refinement.												
FY 2014 Plans:												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>	PROJECT 643479: <i>Advanced Sensor Exploitation</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
Will release prototype 1.1 to users for evaluation in realistic operating environment; will incorporate user feedback and complete development of final prototype			FY 2014
Title: ELINT Synchronization Description: Risk reduction development initiative which automates analysis and screening of large volumes of collected but unscreened technical ELINT data. Effort will further development of applications in signals characterization and database matching algorithms. FY 2012 Accomplishments: N/A FY 2013 Plans: N/A FY 2014 Plans: Will initiate prototype development of a software capability that provides automated screening of technical ELINT data through further development of applications in signals characterization and database matching algorithms.		0.000	0.000
Title: PMA Description: PMA costs (including supplies and travel) support management with engineering and technical support for development and implementation. FY 2012 Accomplishments: PMA costs (including supplies and travel) supported management with engineering and technical support for development and implementation. FY 2013 Plans: PMA costs (including supplies and travel) support management with engineering and technical support for development and implementation. FY 2014 Plans: PMA costs (including supplies and travel) will support management with engineering and technical support for development and implementation.		0.008	0.006
Accomplishments/Planned Programs Subtotals		0.773	0.401
		0.552	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>			PROJECT 643479: <i>Advanced Sensor Exploitation</i>			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• None: N/A	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Remarks											
D. Acquisition Strategy Requirements for new advanced sensor exploitation technologies are gathered and prioritized by the Air Force Intelligence, Surveillance, and Reconnaissance Agency (AFISRA), formerly the Air Intelligence Agency. Development of the new / improved capabilities to meet the 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 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.											

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)						R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development						PROJECT 643479: Advanced Sensor Exploitation			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Initiate Smart Target Folders	C/CPFF	Intelligent Software Solutions:Colorado Springs, CO	-	0.765	Nov 2011	0.395	Nov 2012	0.150	Nov 2013	-		0.150	Continuing	Continuing	TBD
ELINT Sync	C/TBD	TBD:TBD,	-	0.000		0.000		0.394	Nov 2013	-		0.394	Continuing	Continuing	TBD
Subtotal			0.000	0.765		0.395		0.544		0.000		0.544			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	Air Force Research Laboratory - Information Directorate:Rome, NY	-	0.008	Oct 2011	0.006	Oct 2012	0.008	Oct 2013	-		0.008	Continuing	Continuing	TBD
Subtotal			0.000	0.008		0.006		0.008		0.000		0.008			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force										DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development				PROJECT 643479: Advanced Sensor Exploitation				
	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.773		0.401		0.552		0.000		0.552			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

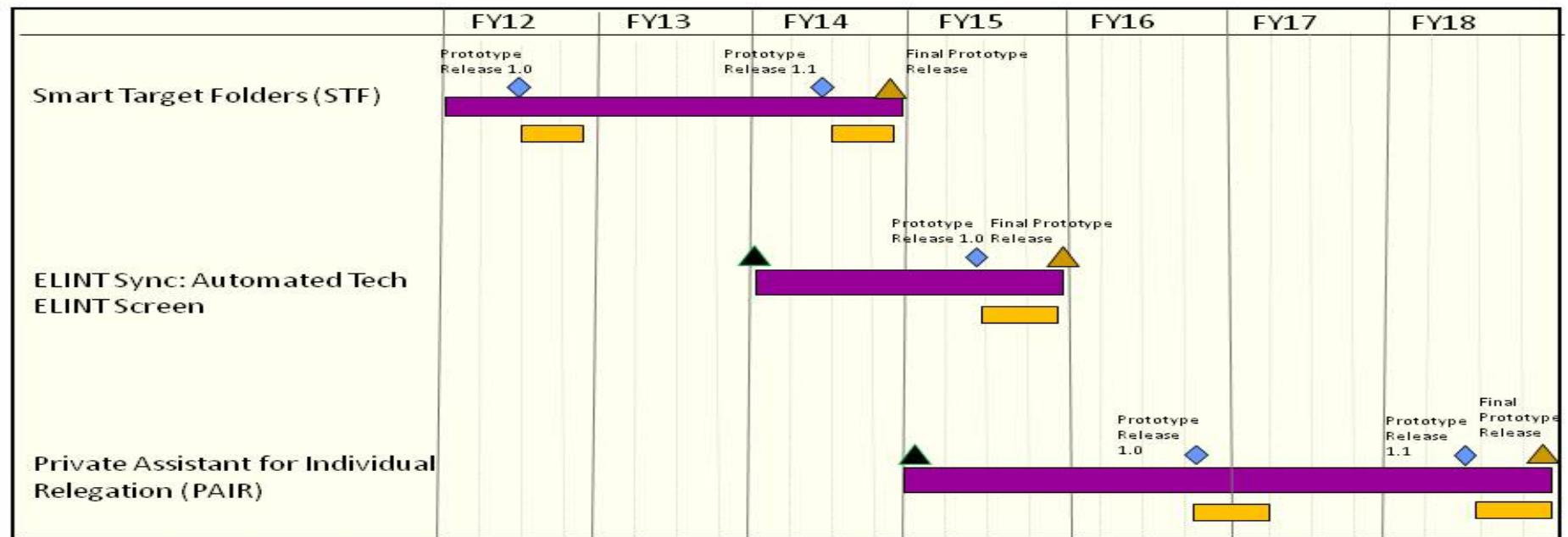
PE 0603260F: Intelligence Advanced Development

PROJECT

643479: Advanced Sensor Exploitation



Intelligence Advanced Development (IAD) Program Schedule BPAC 643479



Iterative Prototype Development
 User Evaluation
 Initiate
 Complete
 Key events

FY14 PB

Depicted by installation/production flow

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>	PROJECT 643479: <i>Advanced Sensor Exploitation</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Smart Target Folders (STF) Prototype Development	1	2012	4	2014
STF Prototype Release 1.0	2	2012	2	2012
Conduct User Evaluation STF Prototype 1.0	3	2012	4	2012
STF Prototype Release 1.1	2	2014	2	2014
Conduct User Evaluation STF Prototype 1.1	3	2014	4	2014
Release Final STF Prototype	4	2014	4	2014
ELINT Synchronization Prototype Development	1	2014	4	2015
ELINT Synchronization Prototype Release 1.0	2	2015	2	2015
ELINT Synchronization Prototype User Evaluation	2	2015	4	2015
ELINT Synchronization Final Prototype Release	4	2015	4	2015
Private Assistant for Individual Relegation (PAIR) Development	1	2015	4	2018
PAIR Prototype Release 1.0	4	2016	4	2016
PAIR Prototype User Evaluation	4	2016	1	2017
PAIR Prototype Release 1.1	2	2018	2	2018
PAIR User Evaluation - Prototype 1.1	2	2018	4	2018
PAIR Final Prototype Release	4	2018	4	2018

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development				PROJECT 643480: Automated Imagery Exploitation			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
643480: Automated Imagery Exploitation	-	0.919	2.452	1.575	-	1.575	1.200	0.990	2.006	2.042	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY2014, 643480, Automated Imagery Exploitation includes a new start effort.												
A. Mission Description and Budget Item Justification												
This project demonstrates and validates the capability to more accurately and quickly interpret digital imagery and video by developing/evaluating computer-assisted techniques to manipulate and overlay imagery, cartographic data, signals intelligence (SIGINT), and on-line intelligence data. The result of this effort will provide the operator precise target locations and identifications, precise target reference scenes, and more accurate damage assessments; all developed for easy supportability on low-cost, commercially-available computer workstations. Activities also include studies and analysis to support both current program planning and execution and future program planning.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Title: Persistent Surveillance (PS)										0.111	0.750	0.000
Description: Integrates emerging technologies to seamlessly mesh and optimize various ISR sources to achieve persistent surveillance over the battlefield.												
FY 2012 Accomplishments: Continued prototype development.												
FY 2013 Plans: Release prototype 1.2 to users for evaluation in realistic operating environment; incorporate user feedback into final prototype.												
FY 2014 Plans: N/A												
Title: Digital Library Input Processing System (DLIPS)										0.111	0.894	0.754
Description: Updates current DLIPS configuration (Text-to-Text translation only) to process foreign language audio or video input into English in support of open-source analysts.												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>	PROJECT 643480: <i>Automated Imagery Exploitation</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
<i>FY 2012 Accomplishments:</i> Continued prototype development. <i>FY 2013 Plans:</i> Releasing prototype 1.1 and conducting user evaluation. <i>FY 2014 Plans:</i> Will release prototype 1.2, will conduct user evaluation; will incorporate user feedback and complete development of final prototype.			
<i>Title:</i> Emitter Location Systems Modeling (ELSM) <i>Description:</i> Initiates enhancement of modeling capability of next generation US, Allied, and adversary RF emitters on the battlefield to allow for enhanced EW performance and vulnerability assessments. <i>FY 2012 Accomplishments:</i> Continued prototype development. <i>FY 2013 Plans:</i> Releasing prototype 1.0 and conducting user evaluation in realistic operating environment. <i>FY 2014 Plans:</i> Will release prototype 1.1 to users for evaluation in realistic operating environment; will incorporate user feedback and complete development of final prototype.		0.388	0.499
<i>Title:</i> Rapid Electronic Attack Assessment For Protection, Exploitation, and Reprogramming (REAPER) <i>Description:</i> Initiates capability to provide rapid assessment of adversary Electronic Attack (EA) signals, which supports pilot training and the development of EA protection and countermeasures systems. <i>FY 2012 Accomplishments:</i> Continued development of prototype. <i>FY 2013 Plans:</i> Releasing prototype 1.0 and conducting user evaluation. <i>FY 2014 Plans:</i>		0.300	0.300
			0.300

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>	PROJECT 643480: <i>Automated Imagery Exploitation</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
Will release prototype 1.1 to users for evaluation in realistic operating environment; will incorporate user feedback and complete development of final prototype.			
Title: Electronics Exploitation Description: Develop 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 Electronics Intelligence (ELINT) intercept data. FY 2012 Accomplishments: N/A FY 2013 Plans: N/A FY 2014 Plans: Will initiate prototype 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 Electronics Intelligence (ELINT) intercept data.		0.000	0.000
Title: PMA Description: PMA costs (including supplies and travel) support management with engineering and technical support for development and implementation. FY 2012 Accomplishments: PMA costs (including supplies and travel) supported management with engineering and technical support for development and implementation. FY 2013 Plans: PMA costs (including supplies and travel) support management with engineering and technical support for development and implementation. FY 2014 Plans: PMA costs (including supplies and travel) will support management with engineering and technical support for development and implementation.		0.009	0.009
Accomplishments/Planned Programs Subtotals		0.919	1.575

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development			PROJECT 643480: Automated Imagery Exploitation			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Complete</u>	<u>Total Cost</u>
• None: N/A	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Remarks None											
D. Acquisition Strategy Requirements for new computer assisted techniques for interpretation of digital imagery and video are gathered and prioritized by the Air Force Intelligence, Surveillance, and Reconnaissance Agency (AFISRA), formerly the Air Intelligence Agency. Development of new / improved capabilities to meet these requirements is managed by AF Research Laboratory (Rome Research Site). The 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.											
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.											

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force						PE 0603260F: Intelligence Advanced Development				643480: Automated Imagery Exploitation					
BA 4: Advanced Component Development & Prototypes (ACD&P)															
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Persistent Surveillance	C/CPFF	Sierra Nevada:Sparks, NV	-	0.111	Oct 2011	0.750	Mar 2013	0.000		-		0.000	0.000	0.861	0.984
Digital Library Input Processing System (DLIPS)	C/CPFF	Northrop Grumman:Dayton, OH	-	0.111	Oct 2011	0.900	Oct 2012	0.754	Oct 2013	-		0.754	Continuing	Continuing	TBD
Emitter Location Systems Modeling (ELSM)	C/CPFF	Information Systems Laboratory:San Diego, CA	-	0.397	Oct 2011	0.502	Oct 2012	0.297	Oct 2013	-		0.297	Continuing	Continuing	TBD
REAPER	C/CPFF	SAIC:McLean, VA	-	0.291	Oct 2011	0.291	Oct 2012	0.300	Oct 2013	-		0.300	Continuing	Continuing	TBD
Electronics Exploitation	C/TBD	TBD:TBD,	-	0.000		0.000		0.215	Oct 2013	-		0.215	Continuing	Continuing	TBD
Subtotal			0.000	0.910		2.443		1.566		0.000		1.566			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	-	0.009	Oct 2011	0.009	Oct 2012	0.009	Oct 2013	-		0.009	Continuing	Continuing	TBD

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>						R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>				PROJECT 643480: <i>Automated Imagery Exploitation</i>				

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.009		0.009		0.009		0.000		0.009				

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.919	2.452	1.575	0.000	1.575			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

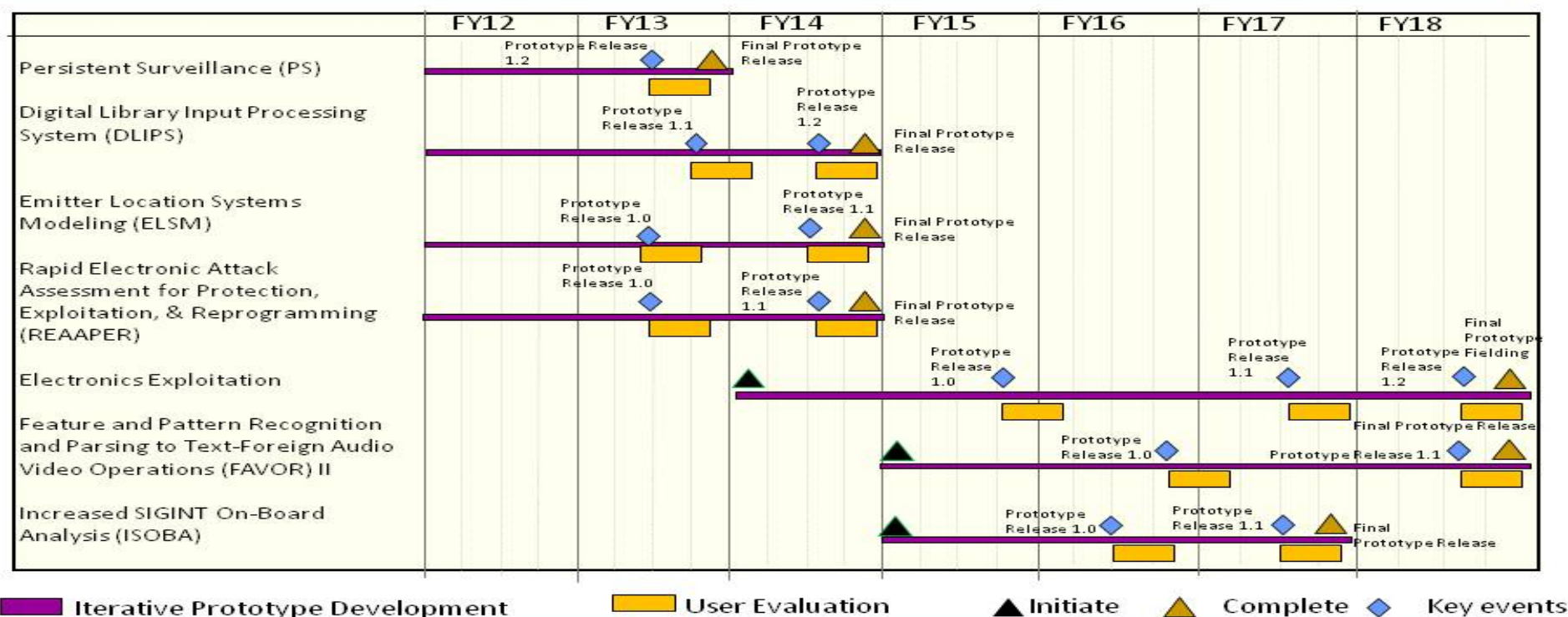
PE 0603260F: Intelligence Advanced Development

PROJECT

643480: Automated Imagery Exploitation



Intelligence Advanced Development (IAD) Program Schedule BPAC 643480



FY14 PB

Depicted by installation/production flow

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>	PROJECT 643480: <i>Automated Imagery Exploitation</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Persistent Surveillance (PS) Prototype Development	1	2012	4	2013
Releasing PS Prototype 1.2	2	2013	2	2013
Conducting User Evaluation PS Spiral Prototype 1.2	2	2013	4	2013
Releasing Final PS Prototype	4	2013	4	2013
Digital Library Input Processing System (DLIPS) Prototype Development	1	2012	4	2014
Releasing DLIPS Prototype 1.1	4	2013	4	2013
Conducting User Evaluation of DLIPS Prototype 1.1	4	2013	1	2014
Releasing DLIPS Prototype 1.2	3	2014	3	2014
Will conduct user evaluation DLIPS Prototype 1.2	3	2014	4	2014
Will release Final DLIPS Prototype	4	2014	4	2014
Emitter Location Systems Modeling (ELSM) Prototype Development	1	2012	4	2014
Releasing ELSM Prototype 1.0	2	2013	2	2013
Conducting User Evaluation ELSM Prototype 1.0	2	2013	4	2013
Releasing ELSM Prototype 1.1	3	2014	3	2014
Will conduct ELSM Prototype 1.1 User Evaluation	3	2014	4	2014
Will release Final ELSM Prototype	4	2014	4	2014
Rapid Electronic Attack Assessment for Protection, Exploitation, and Reprogramming (REAPER) Prototype Development	1	2012	4	2014
Releasing REAPER Prototype 1.0	2	2013	2	2013
Conducting REAPER Prototype 1.0 User Evaluation	2	2013	4	2013
Will release REAPER Prototype 1.1	3	2014	3	2014
Will conduct REAPER Prototype 1.1 User Evaluation	3	2014	4	2014

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development		PROJECT 643480: Automated Imagery Exploitation
		Start		End
Events	Quarter	Year	Quarter	Year
Will release Final REAPER Prototype	4	2014	4	2014
Electronics Exploitation Prototype Development	1	2014	4	2018
Will release Electronics Exploitation Prototype 1.0	4	2015	4	2015
Will conduct Electronics Exploitation Prototype 1.0 User Evaluation	4	2015	1	2016
Will release Electronics Exploitation Prototype 1.1	3	2017	3	2017
Will conduct Electronics Exploitation Prototype 1.1 User Evaluation	3	2017	4	2017
Will release Electronics Exploitation Prototype 1.2	3	2018	3	2018
Will conduct Electronics Exploitation Prototype 1.2 User Evaluation	3	2018	4	2018
Will release Final Electronics Exploitation Prototype	4	2018	4	2018
Feature and Pattern Recognition and Parsing to Text-Foreign Audio Video Operations (FAVOR) II Prototype Development	1	2015	4	2018
Will release FAVOR Prototype 1.0	4	2016	4	2016
Will conduct FAVOR Prototype 1.0 User Evaluation	4	2016	1	2017
Will release FAVOR Prototype 1.1	3	2018	3	2018
Will conduct FAVOR Prototype 1.1 User Evaluation	3	2018	4	2018
Will release Final FAVOR Prototype	4	2018	4	2018
Increased SIGINT On-Board Analysis (ISOBA) Product Development	1	2015	4	2017
Will release ISOBA Prototype 1.0	2	2016	2	2016
Will conduct ISOBA Prototype 1.0 User Evaluation	3	2016	4	2016
Will release ISOBA Prototype 1.1	3	2017	3	2017
Will conduct ISOBA Prototype 1.1 User Evaluation	3	2017	4	2017
Will release Final ISOBA Prototype	4	2017	4	2017

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development				PROJECT 643481: Knowledge Based Tech For Intelligence			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
643481: Knowledge Based Tech For Intelligence	-	1.596	0.542	0.790	-	0.790	1.200	1.740	3.520	3.583	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY2014, 643481, Knowledge Based Tech for Intelligence includes new start efforts.												
A. Mission Description and Budget Item Justification												
This project improves Global Awareness, Dynamic Planning, and Execution by providing knowledge bases and inference engines to exploit collected data for nine major commands and Air Force (AF) intelligence organizations. The development of the analytical aids is based on artificial intelligence techniques. The increased timeliness, efficiency and effectiveness derived will provide enhanced warning time and accuracy, allowing national/military authorities a greater range of options to avert, diminish or control a crisis. Activities also include studies and analysis to support both current program planning and execution and future program planning.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Dynamic ISR for Non-Traditional Adversarial Methods (DINTAM)									1.580	0.525	0.000	
Description: Continues integration of emerging technologies to dynamically allocate, monitor, and task all ISR assets to combat non-traditional warfare methods within an urban environment												
FY 2012 Accomplishments: Continued prototype development.												
FY 2013 Plans: Releasing prototype to users for evaluation in realistic operating environment; incorporating user feedback and completing development of final prototype.												
FY 2014 Plans: N/A												
Title: Multi-Source, Multi-Modal, Analytical Collect, Process, Exploit and Disseminate (MMACPED) System									0.000	0.000	0.485	
Description: Develop a framework designed to expose media tools, data, products, workflow and analytical services to the DoD and IC.												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>		PROJECT 643481: <i>Knowledge Based Tech For Intelligence</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: N/A					
FY 2013 Plans: N/A					
FY 2014 Plans: Will initiate prototype development of MMACPED system.					
Title: C2 Surrogate System Build Spec Description: Develop 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.			0.000	0.000	0.288
FY 2012 Accomplishments: N/A					
FY 2013 Plans: N/A					
FY 2014 Plans: Will initiate the prototype 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.					
Title: PMA Description: PMA costs (including supplies and travel) support management with engineering and technical support for development and implementation.			0.016	0.017	0.017
FY 2012 Accomplishments: PMA costs (including supplies and travel) supported management with engineering and technical support for development and implementation.					
FY 2013 Plans: PMA costs (including supplies and travel) support management with engineering and technical support for development and implementation.					
FY 2014 Plans:					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development				PROJECT 643481: Knowledge Based Tech For Intelligence				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
PMA costs (including supplies and travel) will support management with engineering and technical support for development and implementation.												
Accomplishments/Planned Programs Subtotals										1.596	0.542	0.790
C. Other Program Funding Summary (\$ in Millions)												
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>	
• None: N/A	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
Remarks None												
D. Acquisition Strategy Requirements for new / improved analytical aids to exploit collected intelligence data are gathered and prioritized by the Air Force Intelligence, Surveillance and Reconnaissance Agency (AFISRA), formerly the Air Intelligence Agency. Development of new / improved capabilities to meet the 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.												
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.												

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)						R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development				PROJECT 643481: Knowledge Based Tech For Intelligence					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Dynamic ISR for Non-Traditional Adversarial Methods	C/Various	Northrop-Grumman Corp:Bellevue, NE	-	1.580	Oct 2011	0.525	May 2013	0.000		-		0.000	0.000	2.105	4.200
Multi-Source, Multi-Modal Analytical Collect, Process, Exploit and Disseminate (MMACPED) System	C/TBD	TBD:TBD,	-	0.000		0.000		0.485	Oct 2013	-		0.485	Continuing	Continuing	TBD
C2 Surrogate System Build Spec	C/TBD	TBD:TBD,	-	0.000		0.000		0.288	Oct 2013	-		0.288	Continuing	Continuing	TBD
Subtotal			0.000	1.580		0.525		0.773		0.000		0.773			
Remarks Both are IDIQ															
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force													DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>							R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>				PROJECT 643481: <i>Knowledge Based Tech For Intelligence</i>				

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
PMA	Various	AFRL - Information Directorate:Rome, NY	-	0.016	Oct 2011	0.017	Oct 2012	0.017	Oct 2013	-		0.017		Continuing	Continuing	TBD
Subtotal			0.000	0.016		0.017		0.017		0.000		0.017				

			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	1.596		0.542		0.790		0.000		0.790			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

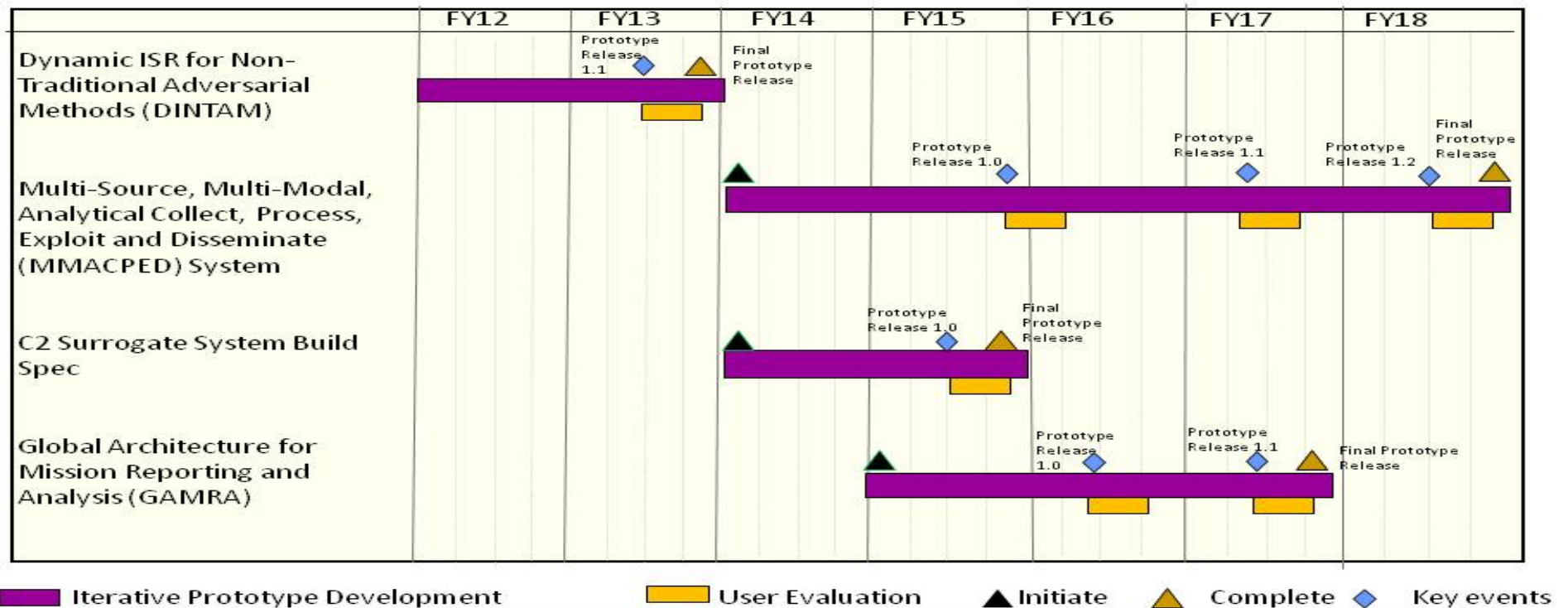
PE 0603260F: Intelligence Advanced Development

PROJECT

643481: Knowledge Based Tech For Intelligence



Intelligence Advanced Development (IAD) Program Schedule BPAC 643481



FY14 PB

Depicted by installation/production flow

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>	PROJECT 643481: <i>Knowledge Based Tech For Intelligence</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Dynamic ISR for Non-Traditional Adversarial Methods (DINTAM) Prototype Development	1	2012	4	2013
Releasing DINTAM Prototype 1.1	2	2013	2	2013
Conducting User Evaluation DINTAM Prototype 1.1	2	2013	4	2013
Releasing Final DINTAM Prototype	4	2013	4	2013
Development of MMACPED Prototype	1	2014	4	2018
Will release MMACPED Prototype 1.0	4	2015	4	2015
Will conduct User Evaluation MMACPED Prototype 1.0	4	2015	2	2016
Will release MMACPED Prototype 1.1	2	2017	2	2017
Will conduct MMACPED Prototype 1.1 User Evaluation	2	2017	3	2017
Will release MMACPED Prototype 1.2	3	2018	3	2018
Will conduct User Evaluation MMACPED Prototype 1.2	3	2018	4	2018
Will release Final MMACPED Prototype	4	2018	4	2018
C2 Surrogate System Build Spec Prototype Development	1	2014	4	2015
Will release C2 Surrogate System Prototype 1.0	3	2015	3	2015
Will conduct C2 Surrogate System Prototype 1.0 User Evaluation	3	2015	4	2015
Will release Final C2 Surrogate System Prototype	4	2015	4	2015
Global Architecture for Mission Reporting and Analysis (GAMRA) Prototype Development	1	2015	4	2017
Will release GAMRA Prototype 1.0	2	2016	2	2016
Will conduct GAMRA Prototype 1.0 User Evaluation	2	2016	4	2016
Will release GAMRA Prototype 1.1	2	2017	2	2017
Will conduct GAMRA Prototype 1.1 User Evaluation	2	2017	4	2017

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force				DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development		PROJECT 643481: Knowledge Based Tech For Intelligence	
		Start		End	
Events		Quarter	Year	Quarter	Year
Will release Final GAMRA Prototype		4	2017	4	2017

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development				PROJECT 643482: Science & Tech Intelligence Methodology			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
643482: Science & Tech Intelligence Methodology	-	0.725	0.471	1.066	-	1.066	1.383	0.870	1.538	1.566	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY2014, 643482, Science & Tech Intelligence Methodology includes a new start effort.												
A. Mission Description and Budget Item Justification												
The project demonstrates and validates intelligence methodologies and techniques for operational employment of simulation models in support of Air Force Intelligence, Surveillance, and Reconnaissance Agency (AFISRA), formerly the Air Intelligence Agency, requirements. The methods and techniques will help AFISRA improve their analysis of current and future foreign weapon systems, and prevent technological surprises to our warfighters with regard to the capabilities of these systems. Activities also include studies and analysis to support both current program planning and execution and future program planning.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Real Time Intelligence Situational Awareness (RTISA)									0.718	0.464	0.000	
Description: Continues effort to provide machine "learning" capability, which simulates a real-time interactive enviornment that results in an heightened sense of intel awareness.												
FY 2012 Accomplishments: Continued prototype development.												
FY 2013 Plans: Releasing prototype to users in realistic operating environment; incorporating user feedback and completing development of final prototype.												
FY 2014 Plans: N/A												
Title: Enabling Discovery through Automated Content Extraction (EDACE)									0.000	0.000	1.059	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force									DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development				PROJECT 643482: Science & Tech Intelligence Methodology		
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014
Description: Develop 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.											
FY 2012 Accomplishments: N/A											
FY 2013 Plans: N/A											
FY 2014 Plans: Will initiate prototype 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.											
Title: PMA									0.007	0.007	0.007
Description: PMA costs (including supplies and travel) support management with engineering and technical support for development and implementation.											
FY 2012 Accomplishments: PMA costs (including supplies and travel) supported management with engineering and technical support for development and implementation.											
FY 2013 Plans: PMA costs (including supplies and travel) support management with engineering and technical support for development and implementation.											
FY 2014 Plans: PMA costs (including supplies and travel) will support management with engineering and technical support for development and implementation.											
Accomplishments/Planned Programs Subtotals									0.725	0.471	1.066
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• None: N/A	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development				PROJECT 643482: Science & Tech Intelligence Methodology			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Complete</u>	<u>Total Cost</u>
Remarks											
D. Acquisition Strategy Requirements for new / improved techniques for operational employment of simulation models are gathered and prioritized by the Air Force Intelligence, Surveillance, and Reconnaissance Agency (AFISRA), formerly the Air Intelligence Agency. Development of the new / improved capabilities to meet the 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.											
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.											

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>						R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>						PROJECT 643482: <i>Science & Tech Intelligence Methodology</i>			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Real Time Intelligence Situational Awareness (RTISA)	C/CPFF	Northrop Grumman:Fairborn, OH	-	0.718	Oct 2011	0.464	May 2013	0.000		-		0.000	0.000	1.182	2.605
Enabling Discovery through Automated Content Extraction (EDACE)	C/TBD	TBD:TBD,	-	0.000		0.000		1.059	Oct 2013	-		1.059	Continuing	Continuing	TBD
Subtotal			0.000	0.718		0.464		1.059		0.000		1.059			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	-	0.007	Oct 2011	0.007	Oct 2012	0.007	Oct 2013	-		0.007	Continuing	Continuing	TBD
Subtotal			0.000	0.007		0.007		0.007		0.000		0.007			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force											DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603260F: Intelligence Advanced Development				PROJECT 643482: Science & Tech Intelligence Methodology				
	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.725		0.471		1.066		0.000		1.066			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

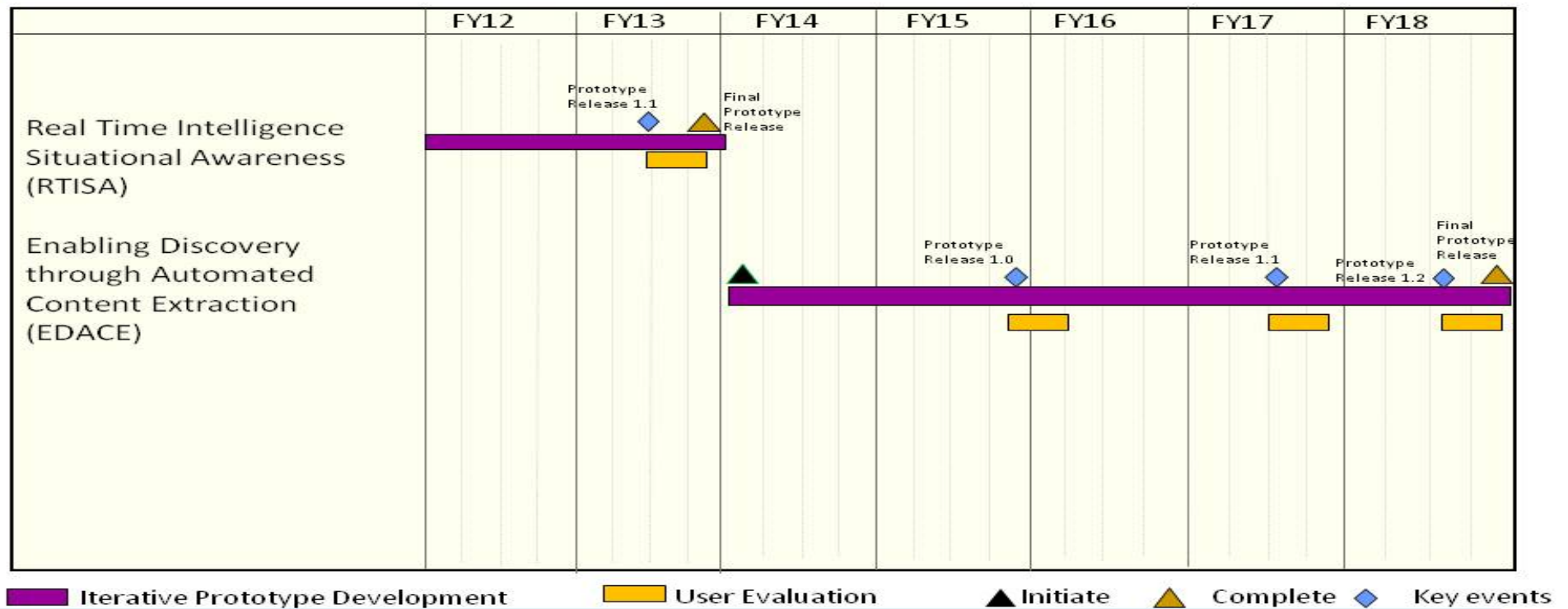
PE 0603260F: Intelligence Advanced Development

PROJECT

643482: Science & Tech Intelligence Methodology



Intelligence Advanced Development (IAD) Program Schedule BPAC 643482



FY14 PB

Depicted by installation/production flow

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603260F: <i>Intelligence Advanced Development</i>	PROJECT 643482: <i>Science & Tech Intelligence Methodology</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Real Time Intelligence Situational Awareness (RTISA) Prototype Development	1	2012	4	2013
Releasing RTISA Prototype 1.2	2	2013	2	2013
Conducting RTISA Prototype 1.2 User Evaluation	2	2013	4	2013
Releasing Final RTISA Prototype	4	2013	4	2013
Enabling Discovery through Automated Content Extraction (EDACE) Prototype Development	1	2014	4	2018
Will release EDACE Prototype 1.0	4	2015	4	2015
Will conduct EDACE Prototype 1.0 User Evaluation	4	2015	2	2016
Will release EDACE Prototype 1.1	3	2017	3	2017
Will conduct EDACE Prototype 1.1 User Evaluation	3	2017	4	2017
Will release EDACE Prototype 1.2	3	2018	3	2018
Will conduct EDACE Prototype 1.2 User Evaluation	3	2018	4	2018
Will release Final EDACE Prototype	4	2018	4	2018