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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2012 Air Force	<b>DATE:</b> February 2011
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				PE 0603260F: <i>Intelligence Advanced Development</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	5.785	5.019	4.013	-	4.013	3.859	3.983	4.352	4.334	Continuing	Continuing
643479: <i>Advanced Sensor Exploitation</i>	2.605	1.833	0.773	-	0.773	0.542	0.618	0.939	0.860	Continuing	Continuing
643480: <i>Automated Imagery Exploitation</i>	0.911	0.904	0.919	-	0.919	0.941	0.955	0.968	0.986	Continuing	Continuing
643481: <i>Knowledge Based Tech For Intelligence</i>	1.557	1.564	1.596	-	1.596	1.652	1.675	1.701	1.731	Continuing	Continuing
643482: <i>Science &amp; Tech Intelligence Methodology</i>	0.712	0.718	0.725	-	0.725	0.724	0.735	0.744	0.757	Continuing	Continuing

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

(U) Intelligence Advanced Development (IAD) demonstrates and validates advanced technologies required to support warfighter needs for timely all-source intelligence information. IAD research 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 by using new and existing data sources, streamlining data analyses, reducing the required intelligence footprint, and by extending the life of sensors in place as well as enhancing their performance. The Air Force Research Laboratory, Rome Research Site, Information and Intelligence Exploitation Division (AFRL/RIE) works directly with users, employing a rapid prototyping evolutionary approach, and then integrating finished modules directly into the field. The programs are oriented towards specific shortfalls and deficiencies as documented by the major commands, combatant commands, and intelligence organizations in their mission and functional area plans. The goal of this activity is to expedite technology transition from the laboratory to operational use via rapid prototyping. This activity is focused on technology insertion to correct Air Force intelligence deficiencies at tactical and operational levels. The effort bridges the transition of new technologies from Advanced Technology Demonstrations and Integrated Technology Thrust Programs into current/new systems, and also supports the associated Defense Technology Objectives. IAD may reallocate existing resources to support out-of-cycle new/updated warfighter requirements.

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.

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

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	5.809	5.019	5.091	-	5.091
Current President's Budget	5.785	5.019	4.013	-	4.013
Total Adjustments	-0.024	-	-1.078	-	-1.078
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-0.024	-	-1.078	-	-1.078

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** 643479: *Advanced Sensor Exploitation*

    Congressional Add: *Multilingual Text Mining Platform for Intelligence Analysts (MTMPIA)*

Congressional Add Subtotals for Project: 643479

Congressional Add Totals for all Projects

<b>FY 2010</b>	<b>FY 2011</b>
0.800	-
0.800	-
0.800	-

**Change Summary Explanation**

\$1.078M reduced in FY12 due to Air Force priorities.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force									DATE: February 2011		
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)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
643479: Advanced Sensor Exploitation	2.605	1.833	0.773	-	0.773	0.542	0.618	0.939	0.860	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

## 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. Capabilities 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 as opposed to 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.

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.

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

	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<b>Title:</b> Ubiquitous Collaboration	1.805	-	-	-	-
<b>Description:</b> Continues integration of emerging technologies to improve collaboration between intelligence and operations personnel at all echelons and across security domains to include coalition environments (i.e., CENTCOM).					
<b>FY 2010 Accomplishments:</b> Completes integration of emerging technologies to improve collaboration between intelligence and operations personnel at all echelons and across security domains to include coalition environments (i.e., CENTCOM).					
<b>FY 2011 Plans:</b>					
<b>FY 2012 Base Plans:</b>					
<b>FY 2012 OCO Plans:</b>					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force								DATE: February 2011			
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				
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<b>Title:</b> Smart Target Folders <b>Description:</b> 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. <b>FY 2010 Accomplishments:</b> <b>FY 2011 Plans:</b> Creates the 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. <b>FY 2012 Base Plans:</b> Continues the development of the 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. <b>FY 2012 OCO Plans:</b>							-	1.833	0.773	-	0.773
Accomplishments/Planned Programs Subtotals							1.805	1.833	0.773	-	0.773
							FY 2010	FY 2011			
<b>Congressional Add:</b> Multilingual Text Mining Platform for Intelligence Analysts (MTMPIA) <b>FY 2010 Accomplishments:</b> Expands MTMPIA capability to allow analysts to extract and translate an Indo-Iranian language (Urdu). <b>FY 2011 Plans:</b>							0.800	-			
Congressional Adds Subtotals							0.800	-			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• Activity Not Provided: None	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
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											

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>	<b>PROJECT</b> 643479: <i>Advanced Sensor Exploitation</i>

(Rome Research Site). Prototype products (usually software), once evaluated by the users, are fielded in incremental capability spirals. MTMPIA is sole source in FY10. All other 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 2012 Air Force										DATE: February 2011			
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 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Ubiquitous Collaboration	C/CPFF	Chiliad, ISS:Washington DC & Rome, NY	1.805	-		-		-		-	Continuing	Continuing	TBD
Multilingual Text Mining Platform for Intelligence Analysts	SS/CPFF	Janya:Amherst, NY	0.800	-		-		-		-	0.000	0.800	0.000
Initiate Smart Target Folders	C/CPFF	Intelligent Software Solutions:Colorado Springs, CO	-	1.833	Nov 2010	0.773		-		0.773	Continuing	Continuing	TBD
Subtotal			2.605	1.833		0.773		-		0.773			
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Air Force							<b>DATE:</b> February 2011					
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>			<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>				<b>PROJECT</b> 643479: <i>Advanced Sensor Exploitation</i>					
		<b>Total Prior Years Cost</b>	<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>		2.605	1.833		0.773		-		0.773			
<b>Remarks</b>												

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force

DATE: February 2011

## APPROPRIATION/BUDGET ACTIVITY

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

## R-1 ITEM NOMENCLATURE

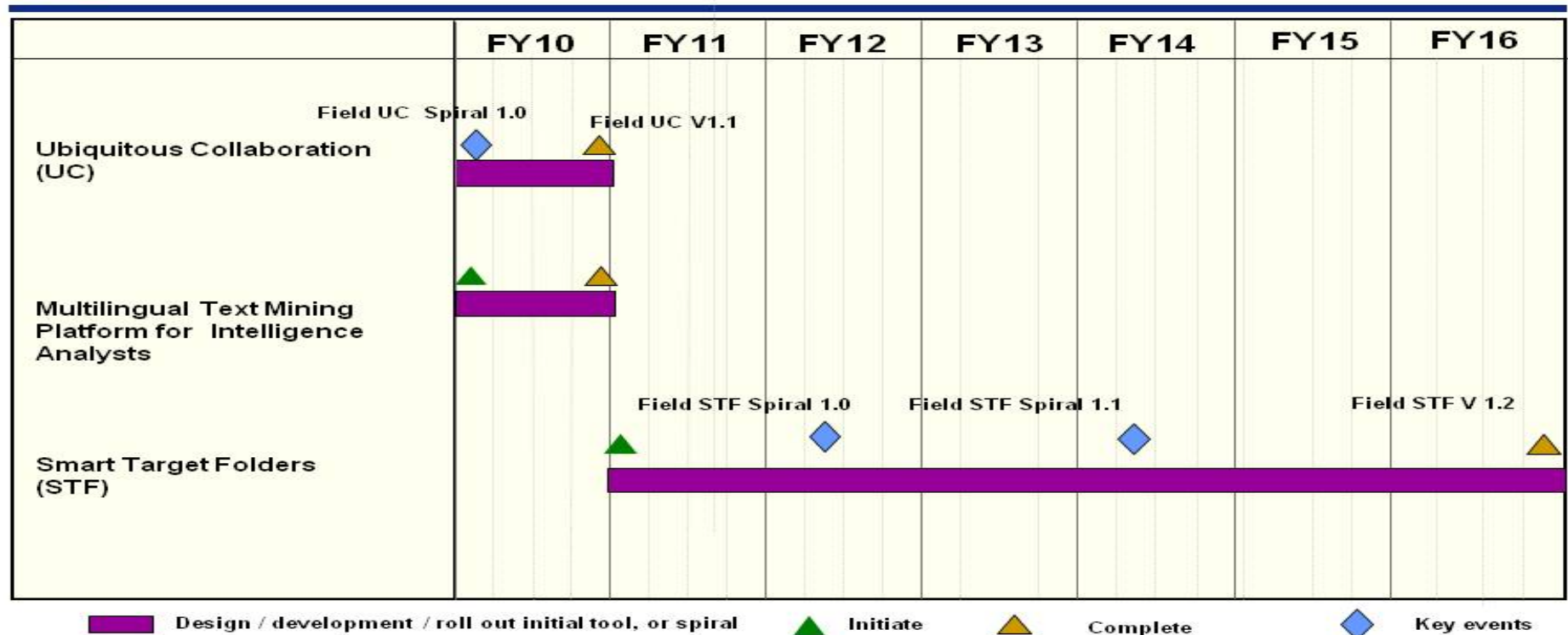
PE 0603260F: Intelligence Advanced Development

## PROJECT

643479: Advanced Sensor Exploitation



## Intelligence Advanced Development Program – Advanced Sensor Exploitation Program Schedule (BPAC 643479)



PB12 R-Docs

Depicted by installation/production flow

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Air Force			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>	<b>PROJECT</b> 643479: <i>Advanced Sensor Exploitation</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Complete Ubiquitous Collaboration	1	2010	4	2010
Field Ubiquitous Collaboration Spiral 1.0	1	2010	1	2010
Field Ubiquitous Collaboration Spiral 1.1	4	2010	4	2010
Multilingual Text Mining Platform for Intelligence Analysts	1	2010	4	2010
Initiate Smart Target Folders (STF)	1	2011	4	2016
Field STF Spiral 1.0	2	2012	2	2012
Field STF Spiral 1.1	2	2014	2	2014
Field STF Spiral 1.2	4	2016	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force								DATE: February 2011			
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)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
643480: Automated Imagery Exploitation	0.911	0.904	0.919	-	0.919	0.941	0.955	0.968	0.986	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
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 be more precise target locations and identifications, precise target reference scenes, and more accurate damage assessments for the operator; 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. This program is in Advanced Component Development & Prototypes (ACD&P), Budget Activity 4, because it demonstrates and validates advanced technology which enhances information / intelligence systems' capabilities and techniques.											
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Persistent Surveillance							0.330	0.230	0.111	-	0.111
Description: Integrates emerging technologies to seamlessly mesh and optimize various ISR sources to achieve persistent surveillance over the battlefield											
FY 2010 Accomplishments: Continues integration of emerging technologies to seamlessly mesh and optimize various ISR sources to achieve persistent surveillance over the battlefield											
FY 2011 Plans: Continues integration of emerging technologies to seamlessly mesh and optimize various ISR sources to achieve persistent surveillance over the battlefield											
FY 2012 Base Plans: Continues integration of emerging technologies to seamlessly mesh and optimize various ISR sources to achieve persistent surveillance over the battlefield											
FY 2012 OCO Plans:											
Title: Digital Library Input Processing System (DLIPS)							0.581	0.074	0.111	-	0.111

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011			
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		
B. Accomplishments/Planned Programs (\$ in Millions)						
		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p><b>Description:</b> 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.</p> <p><b>FY 2010 Accomplishments:</b> Continues update of current DLIPS configuration (Text-to-Text translation only) to process foreign language audio or video input into English in support of open-source analysts</p> <p><b>FY 2011 Plans:</b> Continues update of current DLIPS configuration (Text-to-Text translation only) to process foreign language audio or video input into English in support of open-source analysts</p> <p><b>FY 2012 Base Plans:</b> Continues update of current DLIPS configuration (Text-to-Text translation only) to process foreign language audio or video input into English in support of open-source analysts</p> <p><b>FY 2012 OCO Plans:</b></p>						
<p><b>Title:</b> Emitter Location Systems Modeling (ELSM)</p> <p><b>Description:</b> 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</p> <p><b>FY 2010 Accomplishments:</b></p> <p><b>FY 2011 Plans:</b> Initiates enhancement modeling capability of next generation US, Allied, and adversary RF emitters on the battlefield to allow for enhanced EW performance and vulnerability assessments</p> <p><b>FY 2012 Base Plans:</b> Continues 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</p> <p><b>FY 2012 OCO Plans:</b></p>		-	0.300	0.397	-	0.397
<p><b>Title:</b> Rapid Electronic Attack Assessment For Protection, Exploitation, and Reprogramming (REAPER)</p> <p><b>Description:</b> Initiates capability to rapid assessment of adversary Electronic Attack (EA) signals, which supports pilot training and the development of EA protection and countermeasures systems</p>		-	0.300	0.300	-	0.300

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force				<b>DATE:</b> February 2011							
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>		<b>PROJECT</b> 643480: <i>Automated Imagery Exploitation</i>							
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>											
		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>					
<b><i>FY 2010 Accomplishments:</i></b>											
<b><i>FY 2011 Plans:</i></b> Initiates capability to rapid assessment of adversary Electronic Attack (EA) signals, which supports pilot training and the development of EA protection and countermeasures systems											
<b><i>FY 2012 Base Plans:</i></b> Continues capability to rapid assessment of adversary Electronic Attack (EA) signals, which supports pilot training and the development of EA protection and countermeasures systems											
<b><i>FY 2012 OCO Plans:</i></b>											
<b>Accomplishments/Planned Programs Subtotals</b>		0.911	0.904	0.919	-	0.919					
<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b><u>Line Item</u></b>	<b><u>FY 2010</u></b>	<b><u>FY 2011</u></b>	<b><u>FY 2012 Base</u></b>	<b><u>FY 2012 OCO</u></b>	<b><u>FY 2012 Total</u></b>	<b><u>FY 2013</u></b>	<b><u>FY 2014</u></b>	<b><u>FY 2015</u></b>	<b><u>FY 2016</u></b>	<b><u>Cost To Complete</u></b>	<b><u>Total Cost</u></b>
• Activity Not Provided: <i>None</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
<b>D. Acquisition Strategy</b>											
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 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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force											DATE: February 2011		
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					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Persistent Surveillance	C/CPFF	ITT:Rochester, NY	0.330	0.230		0.111		-		0.111	Continuing	Continuing	TBD
Digital Library Input Processing System (DLIPS)	C/CPFF	Northrop Grumman:Dayton, OH	0.581	0.074		0.111		-		0.111	Continuing	Continuing	TBD
Emitter Location Systems Modeling (ELSM)	C/TBD	TBD:TBD,	-	0.300	Nov 2010	0.397		-		0.397	Continuing	Continuing	TBD
REAPER	C/TBD	TBD:TBD,	-	0.300	Nov 2010	0.300		-		0.300	Continuing	Continuing	TBD
Subtotal			0.911	0.904		0.919		-		0.919			
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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
			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.911	0.904		0.919		-		0.919			

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Air Force						<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>			<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>			<b>PROJECT</b> 643480: <i>Automated Imagery Exploitation</i>			
	<b>Total Prior Years Cost</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Remarks</b>									

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**Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force**

**DATE:** February 2011

**APPROPRIATION/BUDGET ACTIVITY**

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

**R-1 ITEM NOMENCLATURE**

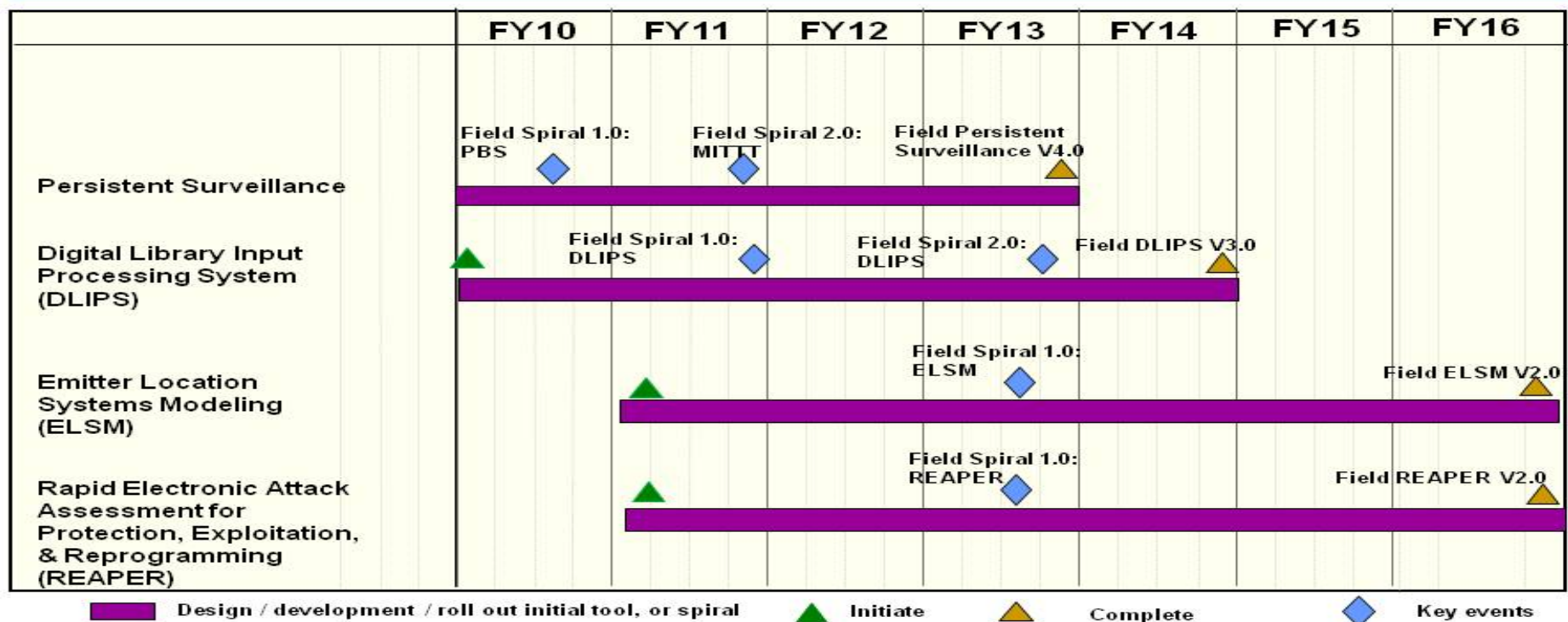
PE 0603260F: Intelligence Advanced Development

**PROJECT**

643480: Automated Imagery Exploitation



**Intelligence Advanced Development Program – Advanced Automated Imagery Exploitation Schedule (BPAC 643480)**



**PB12 R-Docs**

Depicted by installation/production flow

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Air Force			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>	<b>PROJECT</b> 643480: <i>Automated Imagery Exploitation</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Continue Persistent Surveillance	1	2010	4	2013
Continue Digital Library Input Processing System (DLIPS)	1	2010	4	2014
Initiate Emitter Location Systems Modeling (ELSM)	1	2011	4	2016
Initiate Rapid Electronic Attack Assessment for Protection, Exploitation, and Reprogramming (REAPER)	1	2011	4	2016



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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force								DATE: February 2011			
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)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
643481: Knowledge Based Tech For Intelligence	1.557	1.564	1.596	-	1.596	1.652	1.675	1.701	1.731	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
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. This program is in Advanced Component Development & Prototypes (ACD&P), Budget Activity 4, because it demonstrates and validates advanced technology which enhances information/intelligence systems' capabilities and techniques.											
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Dynamic ISR for Non-Traditional Adversarial Methods							0.547	1.564	1.596	-	1.596
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 2010 Accomplishments: 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 2011 Plans: 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 Base Plans: 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 OCO Plans:											
Title: Net Enabled Dynamic Security							1.010	-	-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force							<b>DATE:</b> February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>			<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>			<b>PROJECT</b> 643481: <i>Knowledge Based Tech For Intelligence</i>					
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>							<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<p><b>Description:</b> Completes capability to provide comprehensive battlespace understanding and subject-matter expertise to intel analysts at all level. Supports mutple disciplines to gain awareness of battlespace understanding.</p> <p><b>FY 2010 Accomplishments:</b> Completes capability to provide comprehensive battlespace understanding and subject-matter expertise to intel analysts at all level. Supports mutple disciplines to gain awareness of battlespace understanding.</p> <p><b>FY 2011 Plans:</b></p> <p><b>FY 2012 Base Plans:</b></p> <p><b>FY 2012 OCO Plans:</b></p>											
<b>Accomplishments/Planned Programs Subtotals</b>							1.557	1.564	1.596	-	1.596
<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• Activity Not Provided: <i>None</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
<b>D. Acquisition Strategy</b>											
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 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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force										DATE: February 2011			
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 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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	0.547	1.564		1.596		-		1.596	Continuing	Continuing	TBD
Net Enabled Dynamic Security	C/CPFF	ISS:Colorado Springs, CO	1.010	-		-		-		-	0.000	1.010	0.000
Subtotal			1.557	1.564		1.596		-		1.596			
Remarks Both are IDIQ													
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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
			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			1.557	1.564		1.596		-		1.596			

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Air Force						<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>			<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>			<b>PROJECT</b> 643481: <i>Knowledge Based Tech For Intelligence</i>		
	<b>Total Prior Years Cost</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<u>Remarks</u>								

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**Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force**

**DATE:** February 2011

**APPROPRIATION/BUDGET ACTIVITY**

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

**R-1 ITEM NOMENCLATURE**

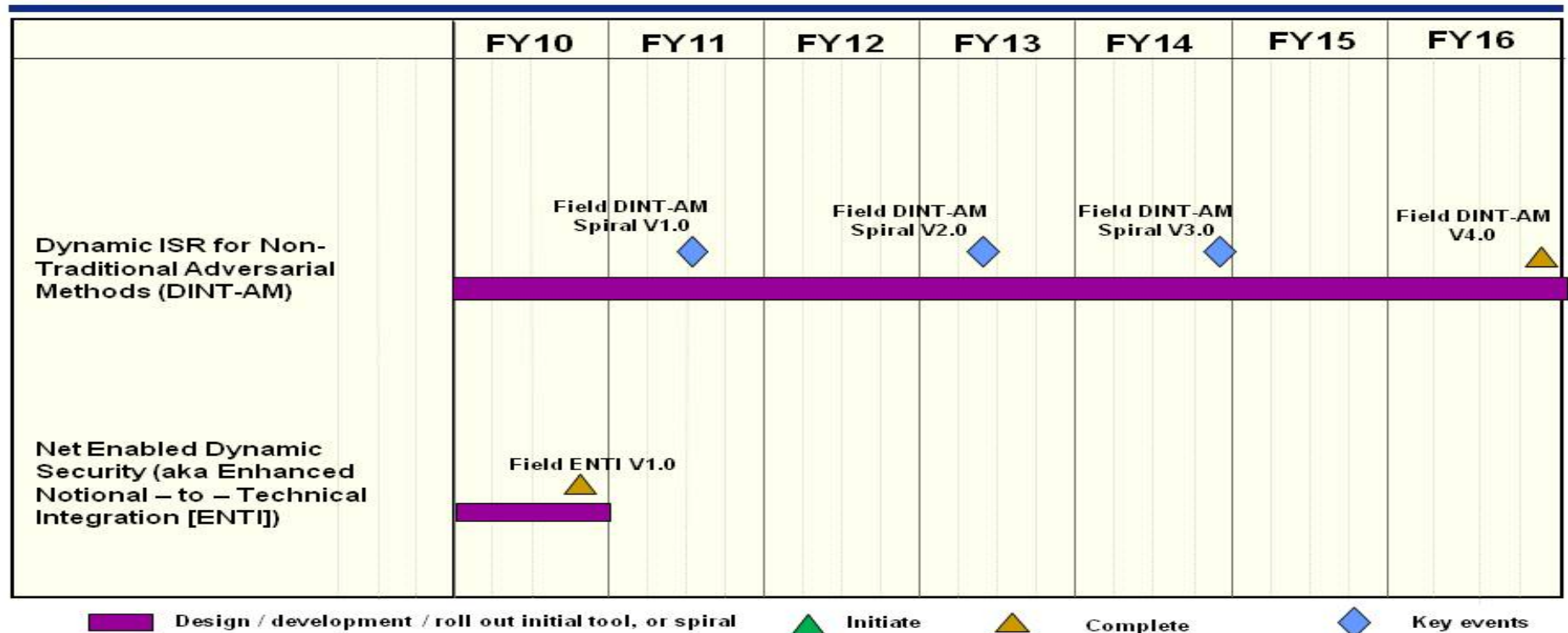
PE 0603260F: Intelligence Advanced Development

**PROJECT**

643481: Knowledge Based Tech For Intelligence



***Intelligence Advanced Development Program – Knowledge Based Tech for Intelligence Schedule (BPAC 643481)***



**PB10 R-Docs**

Depicted by installation/production flow

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Air Force			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>	<b>PROJECT</b> 643481: <i>Knowledge Based Tech For Intelligence</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Continue Dynamic ISR for Non-Traditional Adversarial Methods	1	2010	4	2016
Complete Net Enabled Dynamic Security (a.k.a. Enhanced Notional - to - Technical Integration [ENTI])	1	2010	4	2010

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force									DATE: February 2011		
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)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
643482: Science & Tech Intelligence Methodology	0.712	0.718	0.725	-	0.725	0.724	0.735	0.744	0.757	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
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. This program is in Advanced Component Development & Prototypes (ACD&P), Budget Activity 4, because it demonstrates and validates advanced technology which enhances information / intelligence systems' capabilities and techniques.											
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Real Time Intelligence Situational Awareness							0.712	0.718	0.725	-	0.725
Description: Continues capability to provide machine "learning" capability that simulates a real-time interactive enviornment that results in an heightened sense of intel awareness.											
FY 2010 Accomplishments: Continue capability to provide machine "learning" capability that simulates a real-time interactive enviornment that results in an heightened sense of intel awareness.											
FY 2011 Plans: Continue capability to provide machine "learning" capability that simulates a real-time interactive enviornment that results in an heightened sense of intel awareness.											
FY 2012 Base Plans: Continue capability to provide machine "learning" capability that simulates a real-time interactive enviornment that results in an heightened sense of intel awareness.											
FY 2012 OCO Plans: Continue capability to provide machine "learning" capability that simulates a real-time interactive enviornment that results in an heightened sense of intel awareness.											
Accomplishments/Planned Programs Subtotals							0.712	0.718	0.725	-	0.725

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>	<b>PROJECT</b> 643482: <i>Science &amp; Tech Intelligence Methodology</i>
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**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• Activity Not Provided: <i>None</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

**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 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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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2012 Air Force</b>											<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)				<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: Intelligence Advanced Development				<b>PROJECT</b> 643482: Science & Tech Intelligence Methodology					

Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Real Time Intelligence Situational Awareness	C/CPFF	Northrop Grumman:Fairborn, OH	0.712	0.718	Nov 2010	0.725		-		0.725	Continuing	Continuing	TBD
<b>Subtotal</b>			0.712	0.718		0.725		-		0.725			

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
<b>Subtotal</b>			-	-		-		-		-	0.000	0.000	0.000

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
<b>Subtotal</b>			-	-		-		-		-	0.000	0.000	0.000

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
<b>Subtotal</b>			-	-		-		-		-	0.000	0.000	0.000

			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			0.712	0.718		0.725		-		0.725			

<b>Remarks</b>													

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**Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force**

**DATE:** February 2011

**APPROPRIATION/BUDGET ACTIVITY**

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

**R-1 ITEM NOMENCLATURE**

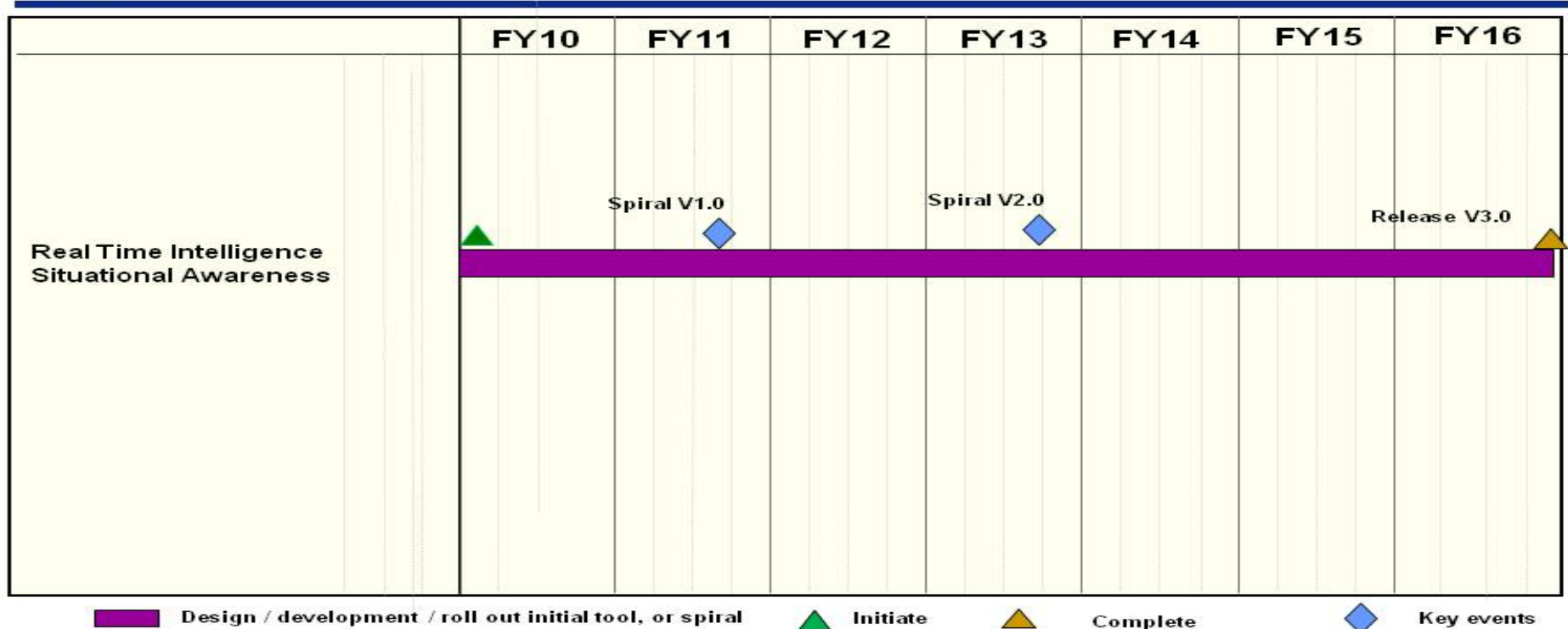
PE 0603260F: Intelligence Advanced Development

**PROJECT**

643482: Science & Tech Intelligence Methodology



**Intelligence Advanced Development Program –Science & Tech  
Intelligence Methodology Schedule (BPAC 643482)**



**PB12 R-Docs**

Depicted by installation/production flow

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force			DATE: February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603260F: <i>Intelligence Advanced Development</i>	<b>PROJECT</b> 643482: <i>Science &amp; Tech Intelligence Methodology</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Continue Real Time Intelligence Situational Awareness	1	2010	4	2016