

**UNCLASSIFIED**

PE NUMBER: 0603260F  
 PE TITLE: Intelligence Advanced Development

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	<b>DATE</b> <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> <b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	<b>PE NUMBER AND TITLE</b> <b>0603260F Intelligence Advanced Development</b>
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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	4.757	5.892	4.988	5.095	5.156	5.255	5.363	Continuing	TBD
3479 Advanced Sensor Exploitation	1.290	1.807	1.835	1.860	1.883	1.900	1.910	Continuing	TBD
3480 Automated Imagery Exploitation	0.994	0.641	0.853	0.927	0.929	0.952	0.980	Continuing	TBD
3481 Knowledge Based Tech For Intelligence	1.753	1.506	1.581	1.584	1.606	1.652	1.720	Continuing	TBD
3482 Science & Tech Intelligence Methodology	0.720	1.938	0.719	0.724	0.738	0.751	0.753	Continuing	TBD

**(U) A. Mission Description and Budget Item Justification**

(U) Program Element (PE) 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, 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 PE is to expedite technology transition from the laboratory to operational use via rapid prototyping. This AF PE is focused on technology insertion to correct AF intelligence deficiencies at tactical and operational levels. The PE 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 PE is in Advanced Component Development & Prototypes (ACD&P), Budget Activity 4, because it demonstrates and validates advanced technologies that enhance information / intelligence systems' capabilities and techniques.

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Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2008

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

0603260F Intelligence Advanced Development

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	4.757	4.930	5.030
(U) Current PBR/President's Budget	4.757	5.892	4.988
(U) Total Adjustments	0.000	0.962	
(U) Congressional Program Reductions		0.038	
Congressional Rescissions			
Congressional Increases		1.000	
Reprogrammings			
SBIR/STTR Transfer			
(U) <b><u>Significant Program Changes:</u></b>			
In FY08 Congress Added \$1M for Multilingual Text Mining Platform (MTMP) for Intel Analyst			

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**February 2008**

BUDGET ACTIVITY <b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>							PE NUMBER AND TITLE <b>0603260F Intelligence Advanced Development</b>		PROJECT NUMBER AND TITLE <b>3479 Advanced Sensor Exploitation</b>	
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total	
3479 Advanced Sensor Exploitation	1.290	1.807	1.835	1.860	1.883	1.900	1.910	Continuing	TBD	
Quantity of RDT&E Articles	0	0	0	0	0	0	0			

**(U) 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.

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.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue / Complete Predictive Battlespace Awareness (Live Electronic Order of Battle)	1.032	0.586	
(U) Initiate / Complete Web Automated Assistance with Intelligence Preparation of the Battlespace (WA2IPB)	0.258	0.390	
(U) Initiate / Continue Ubiquitous Collaboration		0.831	0.877
(U) Initiate Semi-Autonomous Intelligence Fusion			0.958
(U) Total Cost	1.290	1.807	1.835

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E									
(U) Other APPN									
None									

**(U) 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

**Exhibit R-2a, RDT&E Project Justification**

DATE

**February 2008**

BUDGET ACTIVITY

**04 Advanced Component Development and Prototypes (ACD&P)**

PE NUMBER AND TITLE

**0603260F Intelligence Advanced  
Development**

PROJECT NUMBER AND TITLE

**3479 Advanced Sensor Exploitation**

(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.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**February 2008**

<b>BUDGET ACTIVITY</b>	<b>PE NUMBER AND TITLE</b>	<b>PROJECT NUMBER AND TITLE</b>
<b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	<b>0603260F Intelligence Advanced Development</b>	<b>3479 Advanced Sensor Exploitation</b>

<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u>												
Predictive Battlespace Awareness (Live Electronic Order of Battle)	C/CPFF	Northrop-Gru mman, Bellevue, NE and Intelligent Software Solutions, Colorado Springs, CO	2.701	1.032	Jan-07	0.586	Nov-07	0.000		0.000	4.319	4.334
Web Automated Assistance with Intelligence Preparation of the Battlefield (WA2IPB)	C/CPFF	Zel-Tech, LLC, Hampton, VA	0.000	0.258	Feb-07	0.390	Nov-07	0.000		0.000	0.648	0.648
Ubiquitous Collaboration	C/TBD	TBD	0.000	0.000		0.831	Mar-08	0.877	Nov-08	4.332	6.040	TBD
Semi-Autonomous Intelligence Fusion	C/TBD	TBD	0.000	0.000		0.000		0.958	Jan-09	2.400	3.358	TBD
Subtotal Product Development			2.701	1.290		1.807		1.835		6.732	14.365	TBD
Remarks:												
<u>(U) Total Cost</u>			2.701	1.290		1.807		1.835		6.732	14.365	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2008

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

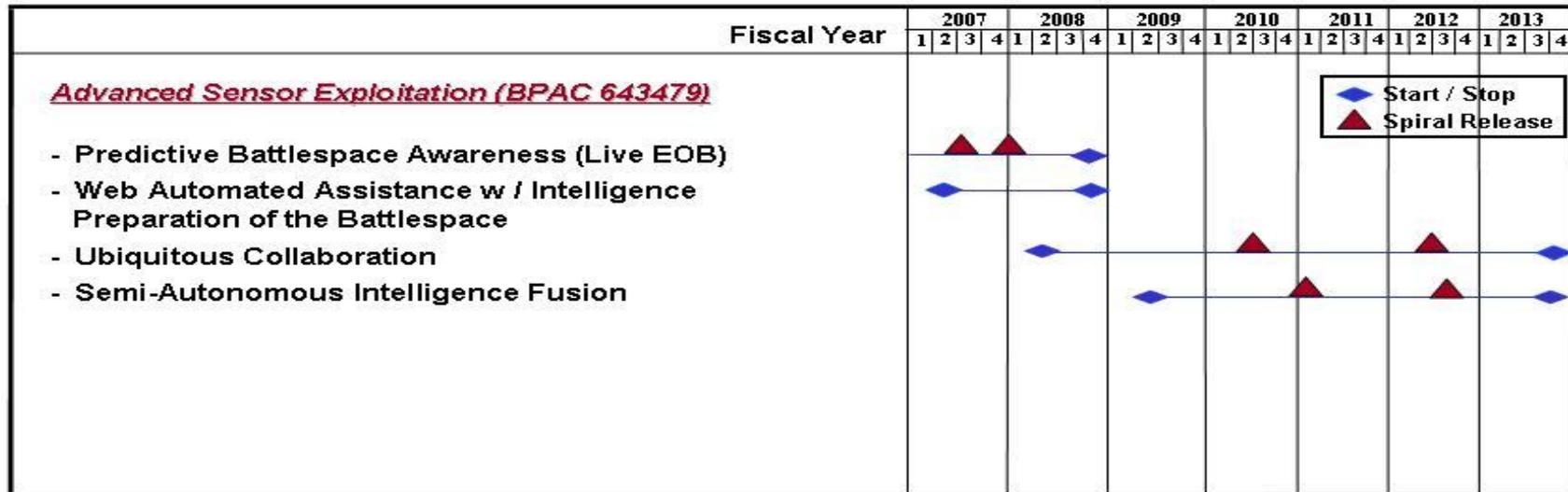
PE NUMBER AND TITLE

0603260F Intelligence Advanced Development

PROJECT NUMBER AND TITLE

3479 Advanced Sensor Exploitation

### Intelligence Advanced Development Program—Advanced Sensor Exploitation Schedule



**UNCLASSIFIED**

<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>		DATE <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> <b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	<b>PE NUMBER AND TITLE</b> <b>0603260F Intelligence Advanced Development</b>	<b>PROJECT NUMBER AND TITLE</b> <b>3479 Advanced Sensor Exploitation</b>
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<b>(U) <u>Schedule Profile</u></b>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue / Complete Predictive Battlespace Awareness (Live Electronic Order of Battle)	1-4Q	1-4Q	
(U) Initiate / Complete Web Automated Assistance with Intelligence Preparation of the Battlespace (WA2IPB)	2-4Q	1-4Q	
(U) Initiate / Continue Ubiquitous Collaboration		2-4Q	1-4Q
(U) Initiate Semi-Autonomous Intelligence Fusion (a.k.a Dynamic Models)			2-4Q

Exhibit R-2a, RDT&E Project Justification

DATE  
February 2008

BUDGET ACTIVITY <b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>				PE NUMBER AND TITLE <b>0603260F Intelligence Advanced Development</b>			PROJECT NUMBER AND TITLE <b>3480 Automated Imagery Exploitation</b>			
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total	
3480 Automated Imagery Exploitation	0.994	0.641	0.853	0.927	0.929	0.952	0.980	Continuing	TBD	
Quantity of RDT&E Articles	0	0	0	0	0	0	0			

(U) **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.

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.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continued / Complete Dynamic Motion Imagery Annotation & Exploitation Tools	0.330		
(U) Continued / Complete Operational Imagery Protection and Authentication	0.357		
(U) Initiate / Continue / Complete Multi-View Toolkit for Imagery Assessment and Exploitation	0.307	0.350	0.551
(U) Initiate / Continue Persistent Surveillance		0.291	0.302
(U) Total Cost	0.994	0.641	0.853

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

	<u>FY 2007</u> <u>Actual</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) AF RDT&E									
(U) Other APPN									
None									

(U) **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 fielded in incremental capability spirals. All major contracts within this project are awarded after full and open competition.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**February 2008**

BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
<b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>				<b>0603260F Intelligence Advanced Development</b>				<b>3480 Automated Imagery Exploitation</b>				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Dynamic Motion Imagery Annotation & Exploitation Tools	C/CPFF	SAIC, Fairborn, OH	0.610	0.330	Nov-06	0.000		0.000		0.000	0.940	0.940
Operational Imagery Protection and Authentication	C/CPFF	PAR Government Systems Corp., New Hartford, NY	0.618	0.357	Nov-06	0.000		0.000		0.000	0.975	0.976
Multi-View Toolkit for Imagery Assessment and Exploitation	C/CPFF	PAR Government Systems Corp., New Hartford, NY	0.000	0.307	Feb-07	0.350	Nov-07	0.551	Nov-08	0.000	1.208	TBD
Persistent Surveillance	C/CPFF	ITT, Rochester, NY	0.000	0.000		0.291	Jul-08	0.302	Nov-08	3.777	4.370	TBD
Subtotal Product Development			1.228	0.994		0.641		0.853		3.777	7.493	TBD
Remarks:												
(U) Total Cost			1.228	0.994		0.641		0.853		3.777	7.493	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2008

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

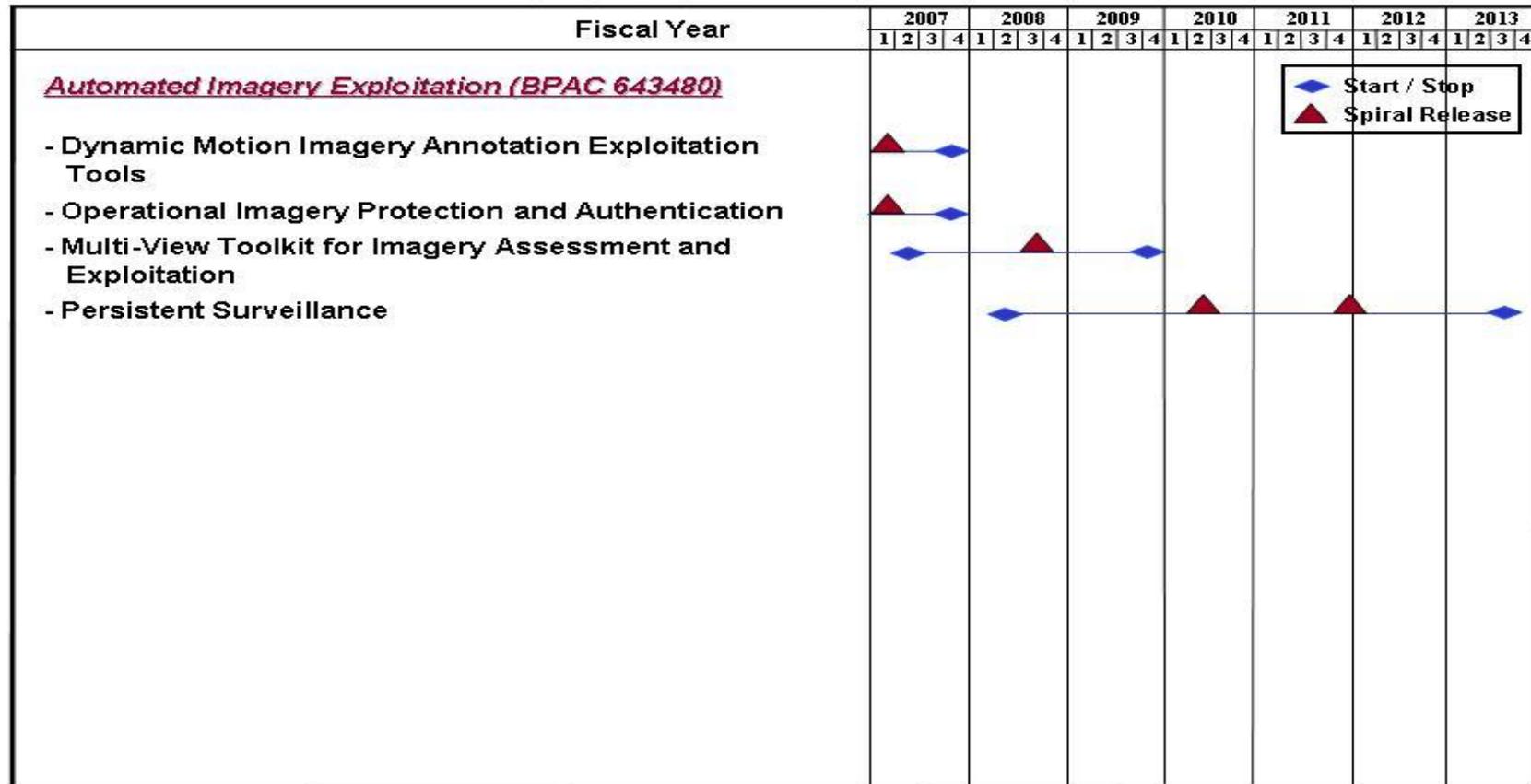
PE NUMBER AND TITLE

0603260F Intelligence Advanced Development

PROJECT NUMBER AND TITLE

3480 Automated Imagery Exploitation

**Intelligence Advanced Development Program—Automated Imagery Exploitation Schedule**



<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> <b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	<b>PE NUMBER AND TITLE</b> <b>0603260F Intelligence Advanced Development</b>	<b>PROJECT NUMBER AND TITLE</b> <b>3480 Automated Imagery Exploitation</b>
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	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <b><u>Schedule Profile</u></b>			
(U) Continued / Complete Dynamic Motion Imagery Annotation Exploitation Tools	1-4Q		
(U) Continued / Complete Operational Imagery Protection and Authentication	1-4Q		
(U) Initiate / Continue / Complete Multi-View Toolkit for Imagery Assessment and Exploitation	2-4Q	1-4Q	1-4Q
(U) Initiate / Continue Persistent Surveillance		2-4Q	1-4Q

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**February 2008**

BUDGET ACTIVITY <b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>							PE NUMBER AND TITLE <b>0603260F Intelligence Advanced Development</b>		PROJECT NUMBER AND TITLE <b>3481 Knowledge Based Tech For Intelligence</b>	
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total	
3481 Knowledge Based Tech For Intelligence	1.753	1.506	1.581	1.584	1.606	1.652	1.720	Continuing	TBD	
Quantity of RDT&E Articles	0	0	0	0	0	0	0			

**(U) 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 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.

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.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continued / Complete High Throughput Imagery Guard (H-TIG)	0.100		
(U) Continued / Complete Enterprise Workflow Management (EWM)	0.453	0.150	
(U) Initiated / Continue / Complete Non-Traditional Intelligence / Surveillance / Reconnaissance (ISR) Production Management	1.200	0.890	
(U) Initiate / Continue Dynamic ISR for Non-Traditional Adversarial Methods		0.466	0.625
(U) Initiate Net Enabled Dynamic Security (a.k.a. Enhanced Notional - to - Technical Integration ENTI)			0.956
(U) Total Cost	1.753	1.506	1.581

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

	<u>FY 2007</u> <u>Actual</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) AF RDT&E									
(U) Other APPN None									

**(U) 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 fielded in incremental capability spirals. All major contracts within this project are awarded after full and open competition.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**February 2008**

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
<b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>				<b>0603260F Intelligence Advanced Development</b>					<b>3481 Knowledge Based Tech For Intelligence</b>			
<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> High Throughput Imagery Guard (H-TIG)	C/IDIQ	Dolphin Technology, Inc., Rome, NY	0.492	0.100	Dec-06	0.000		0.000		0.000	0.592	0.592
Enterprise Workflow Management	C/CPFF	Northrop Grumman Corp, Bellevue, NE	1.112	0.453	Nov-06	0.150	Nov-07	0.000		0.000	1.715	1.716
Non-Traditional ISR Production Management (NTIPM)	C/IDIQ	Northrop-Grumman Corp, Bellevue NE & Intelligent Software Solutions, Colorado Springs, CO	0.426	1.200	Nov-06	0.890	Nov-07	0.000		0.000	2.516	2.523
Dynamic ISR for Non-Traditional Adversarial Methods	C/IDIQ	Northrop-Grumman Corp, Bellvue, NE	0.000	0.000		0.466	Feb-08	0.625	Nov-08	3.745	4.836	TBD
Net-Enabled Dynamic Security	C/TBD	TBD	0.000	0.000		0.000		0.956	Jan-09	2.800	3.756	TBD
Subtotal Product Development			2.030	1.753		1.506		1.581		6.545	13.415	TBD
Remarks:												
(U) Total Cost			2.030	1.753		1.506		1.581		6.545	13.415	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2008

BUDGET ACTIVITY  
04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE  
0603260F Intelligence Advanced Development

PROJECT NUMBER AND TITLE  
3481 Knowledge Based Tech For Intelligence

**Intelligence Advanced Development Program—Knowledge Based Technologies for Intelligence Schedule**

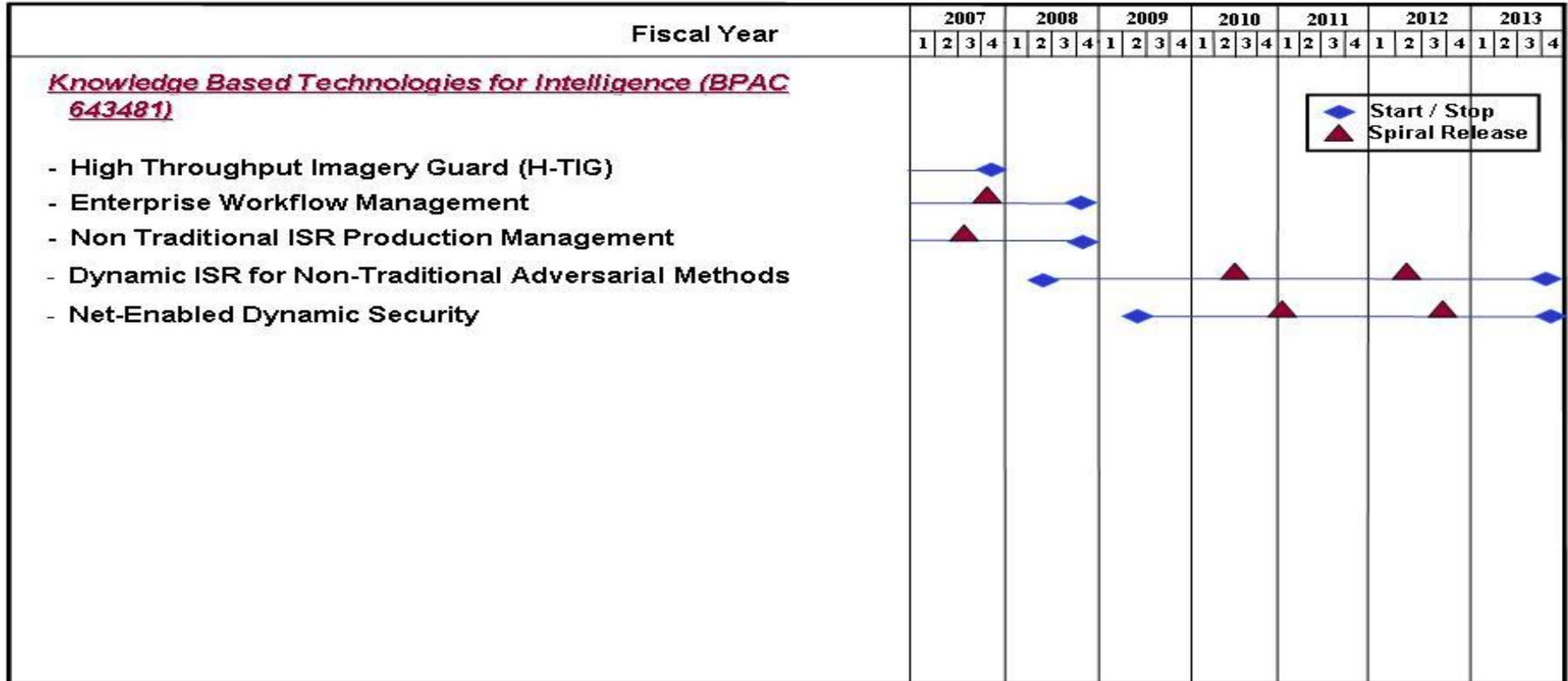


Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2008

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

0603260F Intelligence Advanced Development

PROJECT NUMBER AND TITLE

3481 Knowledge Based Tech For Intelligence

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <b>Schedule Profile</b>			
(U) Continued / Complete High Throughput Imagery Guard (H-TIG)	1-4Q		
(U) Continued / Complete Enterprise Workflow Management Tool	1-4Q	1-4Q	
(U) Initiated / Continue / Complete Non-Traditional ISR Production Management	1-4Q	1-4Q	
(U) Initiate / Continue Dynamic ISR for Non-Traditional Adversarial Methods		2-4Q	1-4Q
(U) Initiate Net-Enabled Dynamic Security (a.k.a. ENTI)			2-4Q

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**February 2008**

<b>BUDGET ACTIVITY</b> <b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>				<b>PE NUMBER AND TITLE</b> <b>0603260F Intelligence Advanced Development</b>			<b>PROJECT NUMBER AND TITLE</b> <b>3482 Science &amp; Tech Intelligence Methodology</b>		
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
3482 Science & Tech Intelligence Methodology	0.720	1.938	0.719	0.724	0.738	0.751	0.753	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

**(U) 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.

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.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continued / Complete Dynamic Information Operations Decision Environment / Automated Correspondence Analysis System (DIODE / ACAS)	0.100		
(U) Continued / Complete Command & Control (C2) Process Models	0.280		
(U) Initiated/ Continue / Complete Integrated Denial & Deception Signatures and Materials (IDMATS)	0.184	0.626	
(U) Initiate / Continue Adversary Tactics, Training, and Readiness Knowledge Base (ATT&RKB)	0.156	0.350	0.719
(U) Congressional Add - Multilingual Text Mining Platform for Intel Analyst (MTMP)		0.962	
(U) Total Cost	0.720	1.938	0.719

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

	<u>FY 2007</u> <u>Actual</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) AF RDT&E									
(U) Other APPN None									

**(U) 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.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**February 2008**

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
<b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>				<b>0603260F Intelligence Advanced Development</b>					<b>3482 Science &amp; Tech Intelligence Methodology</b>			
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> DIODE / ACAS	C/CPFF	Prediction Systems, Inc., Spring Lake, NJ	0.680	0.100	Nov-06			0.000		0.000	0.780	0.780
Command and Control (C2) Process Models	C/CPFF	Northrop-Gru mman, Dayton OH	0.602	0.280	Nov-06	0.000		0.000		0.000	0.882	0.883
Integrated Denial & Deception Signatures and Materials (IDMATS)	C/CPFF	SAIC, Dayton OH	0.051	0.184	Nov-06	0.626	Nov-07	0.000		0.000	0.861	0.861
Adversary Tactics, Training, and Readiness Knowledge Base	C/CPFF	Northrop-Gru mman, Fairborn, OH	0.000	0.156	Apr-07	0.350	Nov-07	0.719	Nov-08	0.398	1.623	TBD
Multilingual Text Mining Platform for Intel Analyst (MTMP)						0.962					0.962	
Subtotal Product Development			1.333	0.720		1.938		0.719		0.398	5.108	TBD
Remarks:												
(U) Total Cost			1.333	0.720		1.938		0.719		0.398	5.108	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2008

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

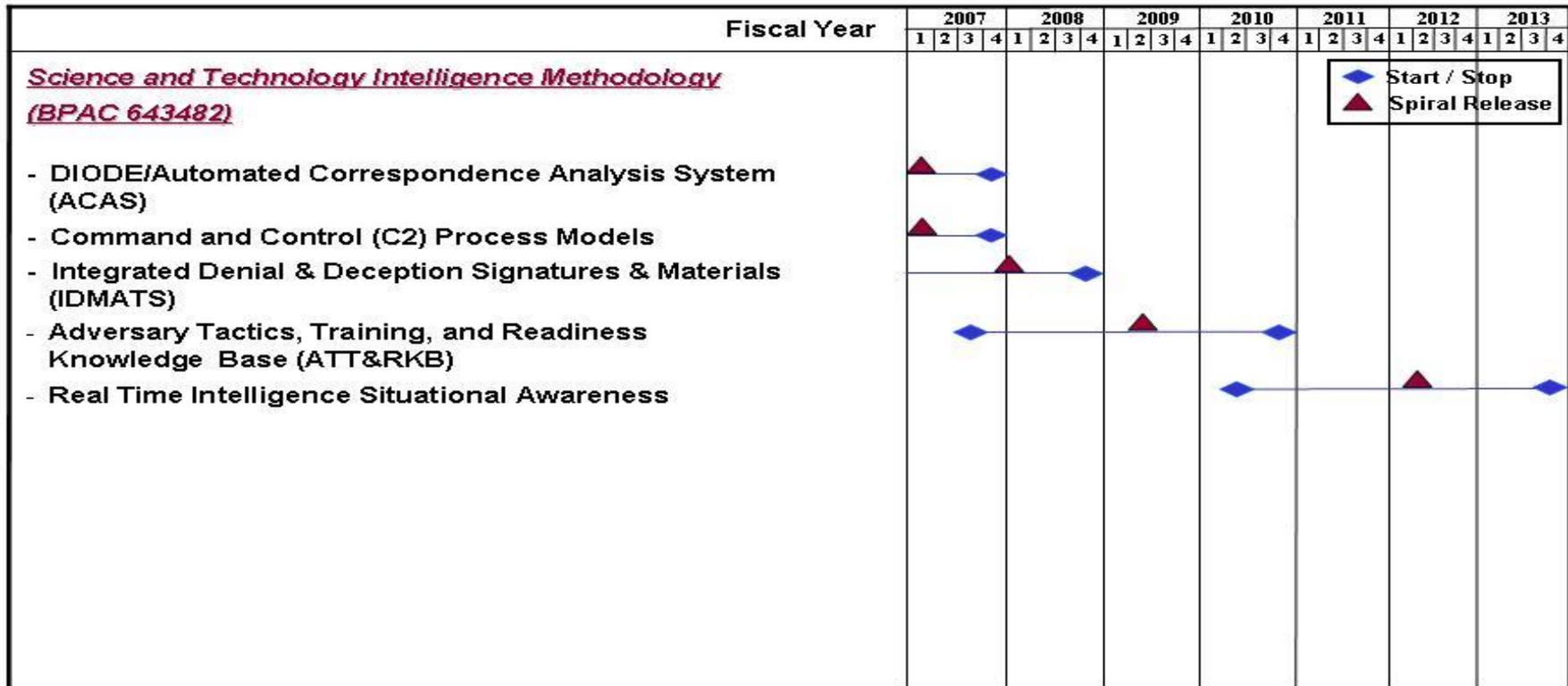
PE NUMBER AND TITLE

0603260F Intelligence Advanced Development

PROJECT NUMBER AND TITLE

3482 Science & Tech Intelligence Methodology

### Intelligence Advanced Development Program—Science & Technology Intelligence Methodology Schedule



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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> <b>04 Advanced Component Development and Prototypes (ACD&amp;P)</b>	<b>PE NUMBER AND TITLE</b> <b>0603260F Intelligence Advanced Development</b>	<b>PROJECT NUMBER AND TITLE</b> <b>3482 Science &amp; Tech Intelligence Methodology</b>
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	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <b><u>Schedule Profile</u></b>			
(U) Continued / Complete DIODE / ACAS	1-4Q		
(U) Continued / Complete Command and Control (C2) Process Models	1-4Q		
(U) Initiate / Continue / Complete IDMATS Program	1-4Q	1-4Q	
(U) Initiate / Continue Adversary Tactics, Training, and Readiness Knowledge Base (ATT&RKB)	3-4Q	1-4Q	1-4Q