

UNCLASSIFIED

PE NUMBER: 0603260F

PE TITLE: Intelligence Advanced Development

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2007
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BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603260F Intelligence Advanced Development
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	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	4.759	4.763	4.930	5.030	5.144	5.206	5.305	5.414	Continuing	TBD
3479 Advanced Sensor Exploitation	1.185	1.293	1.819	1.850	1.878	1.901	1.918	1.928	Continuing	TBD
3480 Automated Imagery Exploitation	1.406	0.995	0.645	0.861	0.936	0.938	0.961	0.989	Continuing	TBD
3481 Knowledge Based Tech For Intelligence	1.573	1.754	1.516	1.594	1.599	1.622	1.668	1.737	Continuing	TBD
3482 Science & Tech Intelligence Methodology	0.595	0.721	0.950	0.725	0.731	0.745	0.758	0.760	Continuing	TBD

(U) 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. Air Force Research Laboratory, Rome Research Site (AFRL/IFE) 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 program is to expedite technology transition from the laboratory to operational use via rapid prototyping. This AF program is focused on technology insertion to correct AF intelligence deficiencies at tactical and operational levels. The program 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 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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04 Advanced Component Development and Prototypes (ACD&P)

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	4.761	4.776	4.878	4.963
(U) Current PBR/President's Budget	4.759	4.763	4.930	5.030
(U) Total Adjustments	-0.002			
(U) Congressional Program Reductions				
Congressional Rescissions		-0.019		
Congressional Increases		1.000		
Reprogrammings	-0.002	-0.994		
SBIR/STTR Transfer				

(U) **Significant Program Changes:**

FY07 Congressional Add for TASS Advanced Communications (\$1.0M) was administratively reprogrammed (minus Congressional rescissions) to PE 63287, Physical Security Equipment for proper execution.

Exhibit R-2a, RDT&E Project Justification

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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	
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	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	1.185	1.293	1.819	1.850	1.878	1.901	1.918	1.928	Continuing	TBD
Quantity of RDT&E Articles	0	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) 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, and IMINT; 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 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue / Complete Predictive Battlespace Awareness (Live Electronic Order of Battle)	1.185	1.035	0.598	
(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				0.973
(U) Total Cost	1.185	1.293	1.819	1.850

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

	<u>FY 2006</u>	<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>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 Command and Control Intelligence Surveillance and

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04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

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Development**

PROJECT NUMBER AND TITLE

3479 Advanced Sensor Exploitation

Reconnaissance Center (AFC2ISRC). 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

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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
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</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-Grumman, Bellevue, NE and Intelligent Software Solutions, Colorado Springs, CO	1.516	1.185	Nov-05	1.035	Jan-07	0.598	Nov-07	0.000		0.000	4.334	4.334
Web Automated Assistance with Intelligence Preparation of the Battlefield (WA2IPB)	C/TBD	TBD	0.000	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		0.000		0.831	Jan-08	0.877	Nov-08	4.332	6.040	TBD
Semi-Autonomous Intelligence Fusion	C/TBD	TBD	0.000	0.000		0.000		0.000		0.973	Jan-09	2.400	3.373	TBD
Subtotal Product Development			1.516	1.185		1.293		1.819		1.850		6.732	14.395	TBD
Remarks:														
<u>(U) Total Cost</u>			1.516	1.185		1.293		1.819		1.850		6.732	14.395	TBD

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

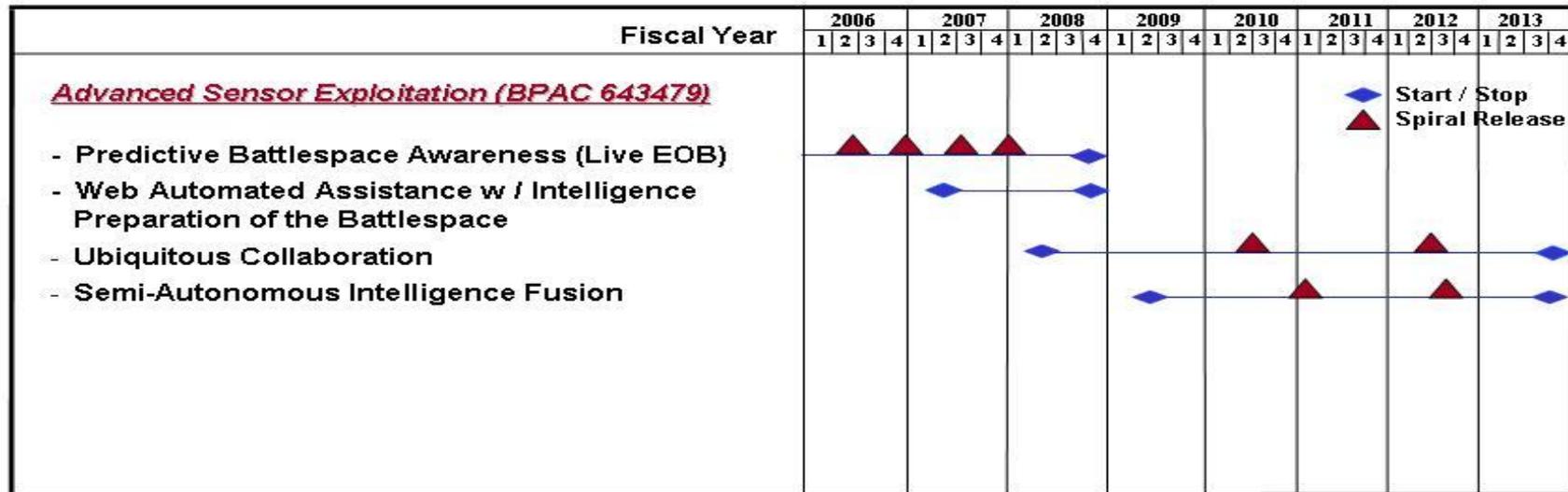
PE NUMBER AND TITLE

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PROJECT NUMBER AND TITLE

3479 Advanced Sensor Exploitation

Intelligence Advanced Development Program—Advanced Sensor Exploitation Schedule



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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2007
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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
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	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <u>Schedule Profile</u>				
(U) Continue / Complete Predictive Battlespace Awareness (Live Electronic Order of Battle)	1-4Q	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				2-4Q

Exhibit R-2a, RDT&E Project Justification

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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		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	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	1.406	0.995	0.645	0.861	0.936	0.938	0.961	0.989	Continuing	TBD
Quantity of RDT&E Articles	0	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 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Completed UAV Motion Imagery Exploitation (MIE)	0.300			
(U) Initiated / Completed AVT234-Smart Camera Development with Target Motion Cueing (FY06 Congressional Add)	0.246			
(U) Continued / Complete Dynamic Motion Imagery Annotation & Exploitation Tools	0.460	0.330		
(U) Continued / Complete Operational Imagery Protection and Authentication	0.400	0.358		
(U) Initiate / Continue / Complete Multi-View Toolkit for Imagery Assessment and Exploitation		0.307	0.354	0.559
(U) Initiate / Continue Persistent Surveillance			0.291	0.302
(U) Total Cost	1.406	0.995	0.645	0.861

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

	<u>FY 2006</u>	<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>Complete</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 Command and Control Intelligence Surveillance and Reconnaissance Center (AFC2ISRC). Development of new / improved capabilities to meet the requirements is managed by

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04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

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PROJECT NUMBER AND TITLE

3480 Automated Imagery Exploitation

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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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
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</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>														
UAV Motion Imagery Exploitation (MIE)	C/CPFF	PAR Government Systems Corp., New Hartford, NY	0.682	0.300	Nov-05			0.000		0.000		0.000	0.982	0.982
AVT234-Smart Camera Development with Target Motion Cueing (FY06 Congressional Add)	C/CPFF	P&L E-Communications, Rochester, NY	0.000	0.246	Jun-06	0.000		0.000		0.000		0.000	0.246	0.246
Dynamic Motion Imagery Annotation & Exploitation Tools	C/CPFF	SAIC, Fairborn, OH	0.150	0.460	Nov-05	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	0.218	0.400	Nov-05	0.358	Nov-06	0.000		0.000		0.000	0.976	0.976
Multi-View Toolkit for Imagery Assessment and Exploitation	C/TBD	TBD	0.000	0.000		0.307	Feb-07	0.354	Nov-07	0.559	Nov-08	0.000	1.220	TBD
Persistent Surveillance		TBD	0.000	0.000		0.000		0.291	Jan-08	0.302	Nov-08	3.777	4.370	TBD
Subtotal Product Development			1.050	1.406		0.995		0.645		0.861		3.777	8.734	TBD
Remarks:														
<u>(U) Total Cost</u>			1.050	1.406		0.995		0.645		0.861		3.777	8.734	TBD

Exhibit R-4, RDT&E Schedule Profile

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04 Advanced Component Development and Prototypes (ACD&P)

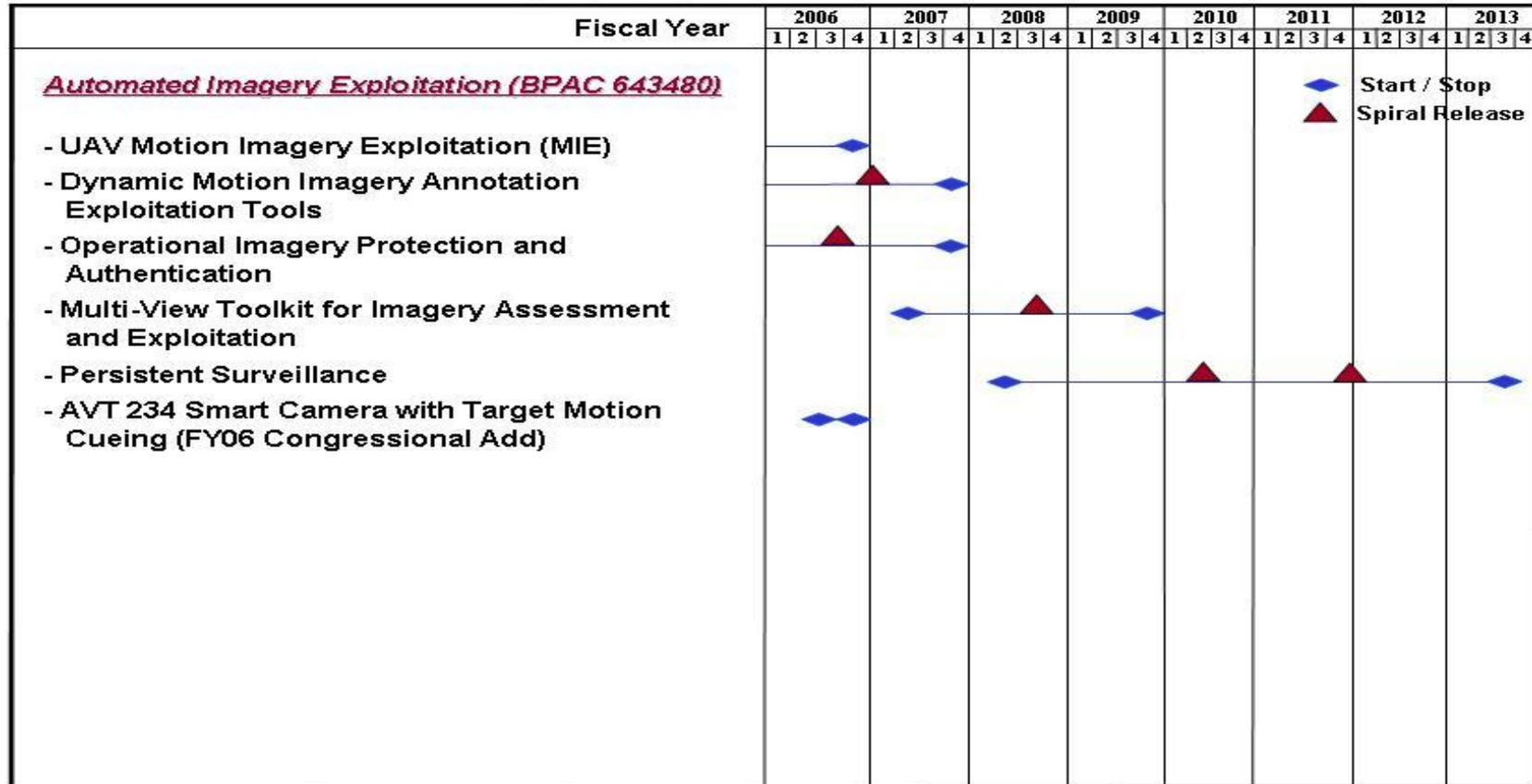
PE NUMBER AND TITLE

0603260F Intelligence Advanced Development

PROJECT NUMBER AND TITLE

3480 Automated Imagery Exploitation

Intelligence Advanced Development Program—Automated Imagery Exploitation Schedule



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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2007
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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
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	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Schedule Profile				
(U) Completed UAV Motion Imagery Exploitation (MIE)	1-4Q			
(U) Initiated / Completed AVT234-Smart Camera Development with Target Motion Cueing (FY06 Congressional Add)	3-4Q			
(U) Continued / Complete Dynamic Motion Imagery Annotation Exploitation Tools	1-4Q	1-4Q		
(U) Continued / Complete Operational Imagery Protection and Authentication	1-4Q	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

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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		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	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	1.573	1.754	1.516	1.594	1.599	1.622	1.668	1.737	Continuing	TBD
Quantity of RDT&E Articles	0	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 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Completed Counter Terrorism / Information Operations (CT / IO) Target Data Access	0.100			
(U) Completed Multi Information Domain Access Web Server (MIDAS)	0.350			
(U) Continued / Complete High Throughput Imagery Guard (H-TIG)	0.100	0.100		
(U) Continued / Complete Enterprise Workflow Management (EWM)	0.600	0.454	0.150	
(U) Initiated / Continue / Complete Non-Traditional Intelligence / Surveillance / Reconnaissance (ISR) Production Management	0.423	1.200	0.900	
(U) Initiate / Continue Dynamic ISR for Non-Traditional Adversarial Methods			0.466	0.625
(U) Initiate Net Enabled Dynamic Security				0.969
(U) Total Cost	1.573	1.754	1.516	1.594

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

	<u>FY 2006</u>	<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>Complete</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 Command and Control

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**0603260F Intelligence Advanced
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PROJECT NUMBER AND TITLE

**3481 Knowledge Based Tech For
Intelligence**

Intelligence Surveillance and Reconnaissance Center (AFC2ISRC). 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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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
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(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2009</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
				<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>			
(U) <u>Product Development</u>														
Counter Terrorism /Information (CT / IO) Operations Target Data Access	C/CPFF	Northrop Grumman Corp, Bellevue, NE	0.443	0.100	Nov-05	0.000		0.000		0.000		0.000	0.543	0.543
Multi-Information Domain Access Web Server (MIDAS)	C/IDIQ	Dolphin Technology, Inc., Rome, NY	0.550	0.350	Nov-05	0.000		0.000		0.000		0.000	0.900	0.900
High Throughput Imagery Guard (H-TIG)	C/IDIQ	Dolphin Technology, Inc., Rome, NY	0.392	0.100	Nov-05	0.100	Dec-06	0.000		0.000		0.000	0.592	0.592
Enterprise Workflow Management	C/CPFF	Northrop Grumman Corp, Bellevue, NE	0.512	0.600	Nov-05	0.454	Nov-06	0.150	Nov-07	0.000		0.000	1.716	1.716
Non-Traditional ISR Production Management (NTIPM)	C/IDIQ	Northrop-Grumman Corp, Bellevue NE & Intelligent Software Solutions, Colorado Springs, CO	0.000	0.423	Mar-06	1.200	Nov-06	0.900	Nov-07	0.000		0.000	2.523	2.523
Dynamic ISR for Non-Traditional Adversarial Methods	C/TBD	TBD	0.000	0.000		0.000		0.466	Jan-08	0.625	Nov-08	3.745	4.836	TBD
Net-Enabled Dynamic Security	C/TBD	TBD	0.000	0.000		0.000		0.000		0.969	Jan-09	2.800	3.769	TBD
Subtotal Product Development			1.897	1.573		1.754		1.516		1.594		6.545	14.879	TBD
Remarks:														
(U) Total Cost			1.897	1.573		1.754		1.516		1.594		6.545	14.879	TBD

Exhibit R-4, RDT&E Schedule Profile

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04 Advanced Component Development and Prototypes (ACD&P)

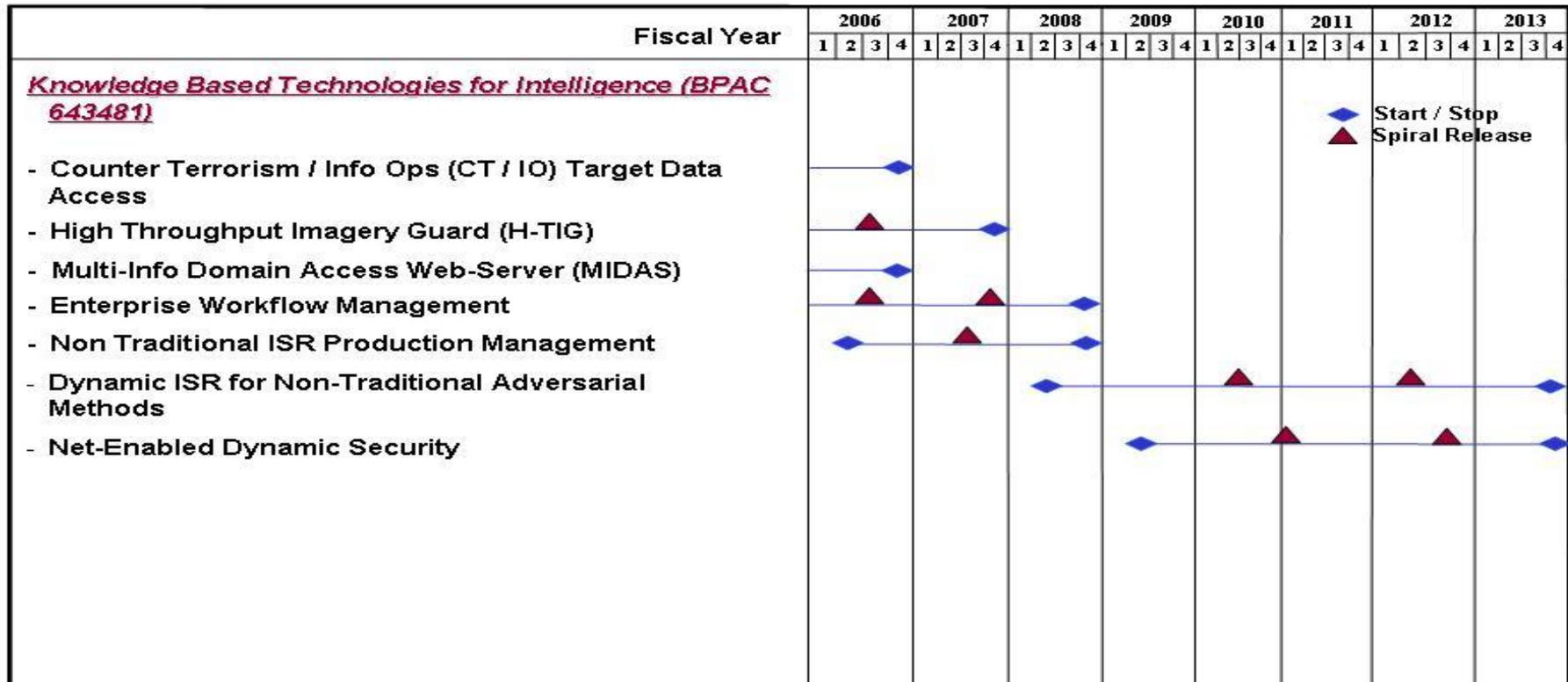
PE NUMBER AND TITLE

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PROJECT NUMBER AND TITLE

3481 Knowledge Based Tech For Intelligence

Intelligence Advanced Development Program—Knowledge Based Technologies for Intelligence Schedule



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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
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(U) <u>Schedule Profile</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Completed Counter-Terrorism/Information Operations (CT / IO) Target Data Access	1-4Q			
(U) Continued / Complete High Throughput Imagery Guard (H-TIG)	1-4Q	1-4Q		
(U) Completed Multi Information Domain Access Web Server (MIDAS)	1-4Q			
(U) Continued / Complete Enterprise Workflow Management Tool	1-4Q	1-4Q	1-4Q	
(U) Initiated / Continue / Complete Non-Traditional ISR Production Management	2-4Q	1-4Q	1-4Q	
(U) Initiate / Continue Dynamic ISR for Non-Traditional Adversarial Methods			2-4Q	1-4Q
(U) Initiate Net-Enabled Dynamic Security				2-4Q

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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		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	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	0.595	0.721	0.950	0.725	0.731	0.745	0.758	0.760	Continuing	TBD
Quantity of RDT&E Articles	0	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 Intelligence Agency (AIA) requirements. The methods and techniques will help AIA 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 2006</u>	<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)	0.250	0.100		
(U) Continued / Complete Command & Control (C2) Process Models	0.294	0.281		
(U) Initiated/ Continue / Complete Integrated Denial & Deception Signatures and Materials (IDMATS)	0.051	0.184	0.626	
(U) Initiate / Continue Adversary Tactics, Training, and Readiness Knowledge Base (ATT&RKB)		0.156	0.324	0.725
(U) Total Cost	0.595	0.721	0.950	0.725

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

	<u>FY 2006</u> <u>Actual</u>	<u>FY 2007</u> <u>Estimate</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 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 Command and Control Intelligence Surveillance and Reconnaissance Center (AFC2ISRC). 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.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE
February 2007

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
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</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	0.430	0.250	Nov-05	0.100	Nov-06			0.000		0.000	0.780	0.780
Command and Control (C2) Process Models	C/CPFF	Northrop-Grumman, Dayton OH	0.308	0.294	Nov-05	0.281	Nov-06	0.000		0.000		0.000	0.883	0.883
Integrated Denial & Deception Signatures and Materials (IDMATS)	C/CPFF	SAIC, Dayton OH	0.000	0.051	Jul-06	0.184	Nov-06	0.626	Nov-07	0.000		0.000	0.861	0.861
Adversary Tactics, Training, and Readiness Knowledge Base	C/TBD	TBD	0.000	0.000		0.156	Mar-07	0.324	Nov-07	0.725	Nov-08	0.398	1.603	TBD
Subtotal Product Development			0.738	0.595		0.721		0.950		0.725		0.398	4.127	TBD
Remarks:														
<u>(U) Total Cost</u>			0.738	0.595		0.721		0.950		0.725		0.398	4.127	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE
February 2007

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

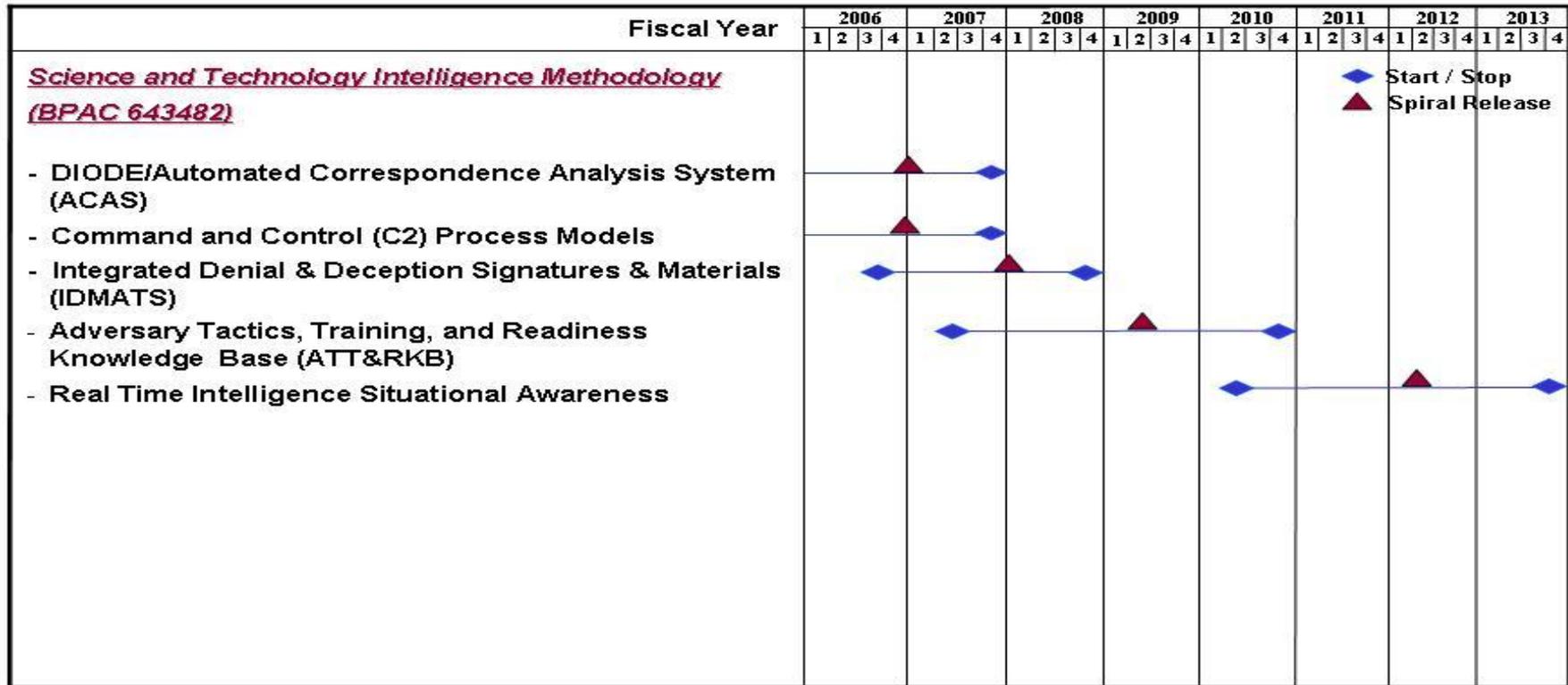


Exhibit R-4a, RDT&E Schedule Detail

DATE
February 2007

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
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(U) <u>Schedule Profile</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continued / Complete DIODE / ACAS	1-4Q	1-4Q		
(U) Continued / Complete Command and Control (C2) Process Models	1-4Q	1-4Q		
(U) Initiate / Continue / Complete IDMATS Program	3-4Q	1-4Q	1-4Q	
(U) Initiate / Continue Adversary Tactics, Training, and Readiness Knowledge Base (ATT&RKB)		2-4Q	1-4Q	1-4Q