PE NUMBER: 0603260F

PE TITLE: Intelligence Advanced Development

	Exhib	DATE	February	2006							
	T ACTIVITY vanced Component Development a	nd Prototype	s (ACD&P)		PE NUMBER AND TITLE 0603260F Intelligence Advanced Development						
	Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total	
	Cost (\$ III MIIIIolis)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete		
	Total Program Element (PE) Cost	4.567	4.761	4.776	4.878	4.963	5.067	5.135	Continuing	TBD	
3479	Advanced Sensor Exploitation	0.829	0.979	0.771	0.805	0.820	0.831	0.834	Continuing	TBD	
3480	Automated Imagery Exploitation	0.943	1.336	1.414	1.437	1.460	1.493	1.515	Continuing	TBD	
3481	Knowledge Based Tech For Intelligence	2.037	1.361	1.441	1.465	1.488	1.522	1.545	Continuing	TBD	
3482	Science & Tech Intelligence Methodology	0.758	1.085	1.150	1.171	1.195	1.221	1.241	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 Lab Rome Research Site (AFRL/IFE) works directly with users, employing a rapid prototyping evolutionary approach, integrating finished modules directly into the field. The programs are oriented toward specific shortfalls and deficiencies as documented by the major commands (MAJCOMS), 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. This program bridges the transition of new technologies from Advanced Technology Demonstrations (ATDs) and Integrated Technology Thrust Programs (ITTPs) into current/new systems, and also supports the associated Defense Technology Objectives (DTOs).

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.

R-1 Shopping List - Item No. 40-2 of 40-21

	UNCLASSIFIED											
	Exhibit R-2, RDT&E Budget Ite	em Justification	DATE Februa	ary 2006								
-	GET ACTIVITY Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603260F Intelligence Advanced Develop	•	•								
(U)	B. Program Change Summary (\$ in Millions)											
		<u>FY 2005</u>	FY 2006	FY 2007								
(U)	Previous President's Budget	4.612	4.580	4.734								
(U)	Current PBR/President's Budget	4.567	4.761	4.776								
(U)	Total Adjustments	-0.045	0.181									
(U)	Congressional Program Reductions											
	Congressional Rescissions	-0.045	-0.069									
	Congressional Increases		0.250									
	Reprogrammings											
	SBIR/STTR Transfer											
(U)	Significant Program Changes:											
	Congress added \$250K in FY06 for development of the AVT234 - Smart Can	nera System with Target Motion Cueing. This continues	an effort that was adde	d by Congress								
	in FY05 in PE 63287F, Physical Security Equipment.											
l												
l												
l												

R-1 Shopping List - Item No. 40-3 of 40-21

	Exh	DATE	February	2006						
						TITLE Iligence Adva		PROJECT NUMI 3479 Advand	BER AND TITLE ced Sensor E	xploitation
Cost (\$ in Millions)		FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
3479 Advanced Sensor Exploitation 0.829 0.979 0.77					0.805	0.820	0.831	0.834	Continuing	TBD
	Quantity of RDT&E Articles	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)	FY 2005	FY 2006	FY 2007
(U)	Continue Predictive Battlespace Awareness (PBA)	0.829	0.729	0.571
(U)	Initiate / Complete AVT234-Smart Camera Development with Target Motion Cueing (FY06 Congressional Add)		0.250	
(U)	Initiate Web Automated Assistance with Intelligence Preparation of the Battlespace (WA2IPB)			0.200
(U)	Total Cost	0.829	0.979	0.771
(U)	C. Other Program Funding Summary (\$ in Millions)			

<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	Cost to	Total Cost
<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	Total Cost

- (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 Reconnaissance Center (AFC2ISRC). Development of the new / improved capabilities to meet the requirements is managed by AF Research Laboratories (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.

Project 3479 R-1 Shopping List - Item No. 40-4 of 40-21

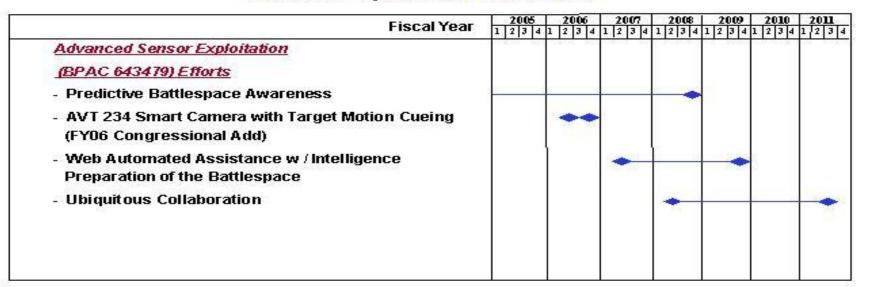
Exhibit R-2a (PE 0603260F)

				UNC	LASSIF	IED								
	E	xhibit R-	3, RDT&E I	Project Co	st Anal	ysis				D	ATE Feb i	ruary 20	06	
											CT NUMBER AND TITLE Advanced Sensor Exploitation			
(U)	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost		Cost to Complete	Total Cost	Target Value of Contract	
(U)	Product Development Predictive Battlespace Awareness (PBA)	C/CPFF	Zel-Tec, Inc., Hampton, VA and Intelligent Software Solutions, Colorado Springs, CO	0.687	0.829	Nov-04	0.729	Nov-05	0.571	Jan-07	Continuing	TBD	TBD	
	AVT234-Smart Camera Development with Target Motion Cueing (FY06 Congressional Add)	TBD	PL E-Communicat ions, Rochester, NY	0.000	0.000		0.250	Mar-06	0.000		0.000	0.250	0.250	
	Web Automated Assistance with Intelligence Preparation of the Battlefield (WA2IPB)	C/TBD	Intelligent Software Solutions, Colorado Springs, CO	0.000	0.000		0.000		0.200	Jan-07	Continuing	TBD	TBD	
	Subtotal Product Development		Springs, CO	0.687	0.829		0.979		0.771		Continuing	TBD	TBD	
(U)	Remarks: Total Cost			0.687	0.829		0.979		0.771		Continuing	TBD	TBD	

Exhibit R-3 (PE 0603260F)

Exhibit R-4, RDT&E Schedule F	Profile		DATE February 2006
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT	NUMBER AND TITLE
04 Advanced Component Development and Prototypes (ACD&P)	0603260F Intelligence Advanced	3479 Ac	Ivanced Sensor Exploitation
	Development		-

Intelligence Advanced Development Program—Advanced Sensor Exploitation Schedule



	ICLASSIFIED			
Exhibit R-4a, RDT&E Schee	dule Detail	DATE Febru	ary 2006	
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603260F Intelligence Advanced Development	PROJECT NUMBER AND 1 3479 Advanced Sens		
 (U) Schedule Profile (U) Continue Predictive Battlespace Awareness (PBA) (U) Initiate / Complete AVT234-Smart Camera Development with Target Motion Congressional Add) (U) Initiate Web Automated Assistance with Intelligence Preparation of the Battles 		<u>FY 2006</u> 1-4Q 2-4Q	<u>FY 2007</u> 1-4Q 2Q	
Project 3479 R-1 Shopping	List - Item No. 40-7 of 40-21	Exhibit I	R-4a (PE 0603260F)	

	Ext	DAT	E February	2006						
	T ACTIVITY /anced Component Development a	PE NUMBER AND 0603260F Inte Development				MBER AND TITLE nated Imagery	Exploitation			
Cost (\$ in Millions) FY 2005 F Actual E				FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
3480	Automated Imagery Exploitation	1.336	1.414	1.437	1.460	1.493	1.51:	5 Continuing	TBD	
	Quantity of RDT&E Articles	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)	FY 2005	FY 2006	FY 2007
(U)	Completed Imagery Assurance and Exploitation	0.100		
(U)	Completed Distributed Common Ground Systems (DCGS) Video Processing Capability (VPC)	0.050		
(U)	Completed J-View Integration into AF Research Laboratory (AFRL) Imagery Viewer	0.100		
(U)	Completed Map-Based Interface to Geospacial Product Library Client	0.075		
(U)	Continue / Complete UAV Motion Imagery Exploitation (MIE)	0.250	0.381	
(U)	Initiated / Continue / Complete Dynamic Motion Imagery Annotation & Exploitation Tools	0.150	0.479	0.320
(U)	Initiated / Continue / Complete Operational Imagery Protection and Authentication	0.218	0.476	0.415
(U)	Initiate Multi-View Toolkit for Imagery Assessment and Exploitation			0.679
(U)	Total Cost	0.943	1.336	1.414
(U)	C. Other Program Funding Summary (\$ in Millions)			
	<u>FY 2005</u> <u>FY 2006</u> <u>FY 2007</u> <u>FY 2008</u> <u>FY 20</u>	<u>09 FY 2010 FY</u>	<u>2011</u> <u>Cost to</u>	Total Cost
	Actual Estimate Estimate Estimate Estim	ate <u>Estimate</u> <u>Est</u>	timate Complet	

- (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 AF Research Laboratories (Rome Research Site). The prototype products (usually software), once evaluated by the users, are fielded in incremental capability spirals. All major

Project 3480 R-1 Shopping List - Item No. 40-8 of 40-21 Exhibit R-2a (PE 0603260F)

Exhibit R-2a, RDT8	E Project Jus	tification	DATE February 2006
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (AC	D&P)	PE NUMBER AND TITLE 0603260F Intelligence Advanced Development	T NUMBER AND TITLE Lutomated Imagery Exploitation
contracts within this project are awarded after full and open comp	petition.		
Project 3480	R-1 Shopping List - I	tem No. 40-9 of 40-21	Exhibit R-2a (PE 0603260F)

	Ех	chibit R-	3, RDT&E F	Project Co	st Anal	ysis					DATE Feb	ruary 20	006
	PE NUMBER AND TITLE 14 Advanced Component Development and Prototypes (ACD&P) 15 Development 16 PE NUMBER AND TITLE 16 0603260F Intelligence Advanced 17 Development 18 Development 19 PROJECT NUMBER AND TITLE 19 0603260F Intelligence Advanced 19 Development												
	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 200 Award Dat	<u>Complete</u>	Total Cost	Target Value of Contract
(U)	Product Development Imagery Assurance and Exploitation	C/CPFF	PAR Government Systems Corp., New Hartford, NY	0.420	0.100	Nov-04					0.000	0.520	0.520
	Distributed Common Ground Systems (DCGS) Video Processing Capability (VPC) Video Annotation Capability	C/CPFF	Science Applications International Corp (SAIC), Dayton, OH	0.344	0.050	Nov-04					0.000	0.394	0.394
	J-View Integration into AFRL Imagery Viewer	C/CPFF	CACI-MTL Systems, Inc., Beavercreek, OH	0.194	0.100	Nov-04					0.000	0.294	0.294
	Map-Based Interface for Geospacial Product Library Client UAV Motion Imagery Exploitation (MIE)	C/CPFF	LPA Systems, Fairport, NY PAR	0.194	0.075	Nov-04					0.000	0.269	0.269
			Government Systems Corp., New Hartford,	0.432	0.250	Nov-04	0.381	Nov-05			0.000	1.063	1.063
	Dynamic Motion Imagery Annotation & Exploitation Tools Operational Imagery Protection and Authentication	C/CPFF	NY SAIC, Fairborn, OH PAR	0.000	0.150	Mar-05	0.479	Nov-05	0.320	Nov-06	0.000	0.949	0.949
			Government Systems Corp., New Hartford, NY	0.000	0.218	Mar-05	0.476	Nov-05	0.415	Nov-06	0.000	1.109	1.109
	Multi-View Toolkit for Imagery Assessment and	C/TBD	TBD	0.000	0.000		0.000		0.679	Jan-07	Continuing	TBD	TBD
	Exploitation Subtotal Product Development			1.584	0.943		1.336		1.414		Continuing	TBD	TBD
(U)	Remarks: Total Cost			1.584	0.943		1.336		1.414		Continuing	TBD	TBD
Dr	pject 3480		D	-1 Shopping Lis	t - Itam Na	40-10 of 40	-21				Evh	ibit R-3 (PE	0603360E/
1 1	0,000 0.700		IX.	i Onopping Lis	E22		<u></u>				LXII	ioit It o (I L	00002001)

Exhibit R-4, RDT&E Schedule	Profile	DATE February 2006
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603260F Intelligence Advanced	PROJECT NUMBER AND TITLE 3480 Automated Imagery Exploitation
	Development	

Intelligence Advanced Development Program—Automated Imagery Exploitation Schedule

Fiscal Year	2005	2006	2007	2008	2009 1/2 3 4	2010	2011
Automated Imagery Exploitation (BPAC 643480)	1807500000000					10000 650000	, a dead to Acc
- Imagery Assurance & Exploitation	•						
- Distributed Common Ground System (DCGS) Video Proc Capability (VPC)	•	Œ					
- J-View Integration into AFRL Imagery Viewer	-	56					
- Map-Based Interface for Geospacial Product Library Client	*	8					
- UAV Motion Imagery Exploitation (MIE)	8		<u> </u>				
- Dynamic Motion Imagery Annotation Exploitation Tools	-		•	3			
- Operational Imagery Protection and Authentication	-		-				
 Multi-View Toolkit for Imagery Assessment and Exploitation 	201916		•		•		
- Persistent Surveillance				•		ć	•

Project 3480

R-1 Shopping List - Item No. 40-11 of 40-21

Exhibit R-4 (PE 0603260F)

Exhibit R-4a, RDT&E Schedule Detail DATE Fobruary 2006											
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 Exploi									
(U) Schedule Profile (U) Completed Imagery Assurance & Exploitation (U) Completed Distributed Common Ground Systems (DCGS) Video Processing Capab (U) Completed J-View Integration into AFRL Imagery Viewer (U) Completed Map-Based Interface for Geospacial Product Library Client (U) Continued / Complete UAV Motion Imagery Exploitation (MIE) (U) Initiated / Continue / Complete Dynamic Motion Imagery Annotation Exploitation T (U) Initiated / Continue / Complete Operational Imagery Protection and Authentication (U) Initiate Multi-View Toolkit for Imagery Assessment and Exploitation	FY 2005 4Q 4Q 4Q 4Q 1-4Q 1-4Q	FY 2006 4Q 1-4Q 1-4Q	FY 2007 4Q 4Q 2Q								

Exhibit R-4a (PE 0603260F)

	Exh	DATE	DATE February 2006							
				PE NUMBER AND TITLE 0603260F Intelligence Advanced Development			PROJECT NUMBER AND TITLE 3481 Knowledge Based Tech For Intelligence			
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
3481	Knowledge Based Tech For Intelligence	2.037	1.361	1.441	1.465	1.488	1.522	1.545	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 M	illions)				FY	2005	FY 2006	FY 2007
		Completed Trusted Transfer Agent Completed		d				0.450	1 1 2000	1 1 2007
		Completed Infrastructure Operations Tool Access			orise (IOTA / SII	DEARM)		0.225		
(U)	Continued / Complete Counter Terrorism / Inform			0.250	0.275				
(U)	Continued / Complete High Throughput Imagery			0.250	0.325				
(U)	Continued / Complete Multi Information Domain			0.350	0.156				
(U)	Initiated / Continue Enterprise Workflow Manage	ment (EWM)					0.512	0.325	0.350
(U)	Initiate / Continue Non-Traditional Intelligence /	Surveillance / Red	connaissance (IS	R) Production M	I anagement			0.280	1.091
(U)	Total Cost						2.037	1.361	1.441
((U) (C. Other Program Funding Summary (\$ in Mill	ions)							
1		<u>FY 2005</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
1		<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	Total Cost

- (U) AF RDT&E
- (U) Other APPN None

TTOILC

(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 Intelligence Surveillance and Reconnaissance Center (AFC2ISRC). Development of new / improved capabilities to meet the requirements is managed by AF Research Laboratories (Rome Research Site). Prototype products (usually software), once evaluated by the users, are fielded in incremental capability spirals. All major

Project 3481 R-1 Shopping List - Item No. 40-13 of 40-21 Exhibit R-2a (PE 0603260F)

Exhibit R-2a, RDT	DATE February 2006		
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (AC	CD&P)	PE NUMBER AND TITLE 0603260F Intelligence Advanced Development	T NUMBER AND TITLE nowledge Based Tech For ence
contracts within this project are awarded after full and open com	petition.	-	
Project 3481	R-1 Shopping List - It	em No. 40-14 of 40-21	Exhibit R-2a (PE 0603260F)

	E	xhibit R-	3, RDT&E	Project Co							Feb	ruary 20	006
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)										3481 Kno	r NUMBER AND TITLE nowledge Based Tech For ence		
	<u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Complete	Total Cost	Target Value of Contract
(U)	Product Development Trusted Transfer Agent (TTA) Phase 3 - Secure Trusted Automated Routing (STAR) Guard	C/IDIQ	Dolphin Technology, Inc., Rome, NY	0.447	0.450	Nov-04	0.000		0.000		0.000	0.897	0.897
	Information Operations Tool Access (IOTA) / Secure Intelligence Data Enterprise-Aware Repository Middleware (SIDEARM)	C/IDIQ	Northrop Grumman Corp, Bellevue, NE	0.300	0.225	Nov-04	0.000		0.000		0.000	0.525	0.525
	Counter Terrorism /Information (CT / IO) Operations Target Data Access	C/CPFF	Northrop Grumman Corp, Bellevue, NE	0.193	0.250	Nov-04	0.275	Nov-05	0.000		0.000	0.718	0.718
	High Throughput Imagery Guard (H-TIG)	C/IDIQ	Dolphin Technology, Inc., Rome, NY	0.142	0.250	Nov-04	0.325	Nov-05	0.000		0.000	0.717	0.717
	Multi-Information Domain Access Web Server (MIDAS)	C/IDIQ	Dolphin Technology, Inc., Rome, NY	0.200	0.350	Nov-04	0.156	Nov-05	0.000		0.000	0.706	0.706
	Enterprise Workflow Management	C/CPFF	Northrop Grumman Corp, Bellevue, NE	0.000	0.512	Mar-05	0.325	Nov-05	0.350	Nov-06	Continuing	TBD	TBD
	Non-Traditional ISR Production Management	C/TBD	TBD	0.000	0.000		0.280	Mar-06	1.091	Nov-06	Continuing	TBD	TBD
	(NTIPM) Subtotal Product Development			1.282	2.037		1.361		1.441		Continuing	TBD	TBD
(U)	Remarks: Total Cost			1.282	2.037		1.361		1.441		Continuing	TBD	TBD
Pr	oject 3481		F	R-1 Shopping Lis	t - Item No.	40-15 of 40	-21				Exh	ibit R-3 (PE	0603260F)

Exhibit R-4, RDT&E Schedule P	'rofile		DATE February 2006
			T NUMBER AND TITLE nowledge Based Tech For
, , , , , , , , , , , , , , , , , , , ,		Intellige	•

Intelligence Advanced Development Program—Knowledge Based Technologies for Intelligence Schedule

Fi11/	2005	2006	2007	2008	2009	2010	2011
Fiscal Year	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3
(nowledge Based Technologies for Intelligence (BPAC 643481)		2000		1		120	93
Trusted Transfer Agent Phase 3 (Star Guard)	-	i i					
Infrastructure Operations Tools Access / Secure Intel Data Enterprise Aware Repository Middleware (IOTA / SIDEARM)	•	â					
Counter Terrorism / Info Ops (CT/IO) Target Data Access	9 3	•	ĝ.				
High Throughput Imagery Guard (H-TIG)			ê				
Multi-Info Domain Access Web-Server (MIDAS)			į.				
Enterprise Workflow Management	-	8	8				
Non Traditional ISR Production Mgmt	-5101	•			•		
Dynamic ISR for Non-Traditional Adversarial Methods				•	-		-
				I			

Project 3481

R-1 Shopping List - Item No. 40-16 of 40-21

Exhibit R-4 (PE 0603260F)

UNCLASSIFIED Exhibit R-4a, RDT&E Schedule Detail February 2006									
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603260F Intelligence Advanced Development	PROJECT NUMBER AND T 3481 Knowledge Bas Intelligence	TITLE						
 U) Schedule Profile U) Completed Trusted Transfer Agent (TTA) Completed Phase 3, Starguard U) Completed Infrastructure Operations Tools Access (IOTA) / Secure Intelligence Data Enterprise-Aware Repository Middleware (IOTA / SIDEARM) U) Continued / Complete Counter-Terrorism/Information Operations (CT / IO) Target I 		<u>FY 2006</u> 4Q	FY 2007						
 (U) Continued / Complete High Throughput Imagery Guard (H-TIG) (U) Continued / Complete Multi Information Domain Access Web Server (MIDAS) 	1-4Q 1-4Q	4Q 4Q							
(U) Initiated / Continue Enterprise Workflow Management Tool (U) Initiate / Continue Non Traditional ISR Production Management	2Q	1-4Q 2Q	1-4Q 1-4Q						

R-1 Shopping List - Item No. 40-17 of 40-21

	Exh	DATE	DATE February 2006							
				PE NUMBER AND TITLE 0603260F Intelligence Advanced Development			PROJECT NUMBER AND TITLE 3482 Science & Tech Intelligence Methodology			
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
3482	Science & Tech Intelligence Methodology	0.758	1.085	1.150	1.171	1.195	1.221	1.241	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 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)	FY 2005	FY 2006	FY 2007
(U)	Completed Joint Integrated Air Defense System (IADS) View	0.200		
(U)	Continued / Complete DIODE / Automated Correspondence Analysis System (ACAS)	0.250	0.350	0.100
(U)	Initiated / Continue / Complete Command & Control (C2) Process Models	0.308	0.351	0.281
(U)	Initiate / Continue Integrated Denial & Deception Signatures and Materials (IDMATS)		0.384	0.290
(U)	Initiate Adversary Tactics Training & Readiness Knowledge Base (ATT&RKB)			0.479
(U)	Total Cost	0.758	1.085	1.150
(7.7)				

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

FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	10tal Cost

- (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 Laboratories (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.

Project 3482 R-1 Shopping List - Item No. 40-18 of 40-21

Exhibit R-2a (PE 0603260F)

	Ex	xhibit R-	3, RDT&E I	Project Co	st Anal	ysis				D	ATE Feb	ruary 20	06
								3482 Scie	T NUMBER AND TITLE cience & Tech Intelligence dology				
(U)	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions) Product Development	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U)	Joint Integrated Air Defense System (IADS) View	C/CPFF	SAIC, Fairborn, OH	0.309	0.200	Nov-04	0.000		0.000		0.000	0.509	0.509
	DIODE / Automated Correspondent Analysis System (ACAS)	C/CPFF	Prediction Systems, Inc., Spring Lake, NJ	0.180	0.250	Nov-04	0.350	Nov-05	0.100	Nov-06	0.000	0.880	0.880
	Command and Control (C2) Process Models	C/CPFF	PRC, Inc., Dayton, OH	0.000	0.308	Feb-05	0.351	Nov-05	0.281	Nov-06	0.000	0.940	0.940
	Integrated Denial & Deception Signatures and Materials (IDMATS)	C/CPFF	TBD	0.000	0.000		0.384	May-06	0.290	Nov-06	Continuing	TBD	TBD
	Adversary Tactics & Training Readiness Knowledge Base	C/TBD	TBD		0.000		0.000		0.479	Feb-07	Continuing	TBD	TBD
	Subtotal Product Development			0.489	0.758		1.085		1.150		Continuing	TBD	TBD
(U)	Remarks: Total Cost			0.489	0.758		1.085		1.150		Continuing	TBD	TBD

Project 3482 R-1 Shopping List - Item No. 40-19 of 40-21

Exhibit R-3 (PE 0603260F)

Exhibit R-4, RDT&E Schedule P	DATE February 2006				
			T NUMBER AND TITLE		
04 Advanced Component Development and Prototypes (ACD&P)	0603260F Intelligence Advanced	3482 Sc	3482 Science & Tech Intelligence		
	Development	Method	lology		

Intelligence Advanced Development Program—Science & Technology Intelligence Methodology Schedule

Fiscal Year	2005 1 2 3 4	2006 1 2 3 4	2007	2008 1 2 3 4	2009 1 2 3 4	2010 1 2 3 4	2011 1 2 3 4
Science and Technology Intelligence Methodology			200000000	1,000,000,000,000			
(BPAC 643482)							
- Joint Integrated Air Defense System (IADS) View	•	e e		_			
DIODE/Automated Correspondence Analysis System (ACAS)	-	S 3		1			
Command and Control (C2) Process Models	-	8 .	-				
Integrated Denial & Deception Signatures & Materials (IDMATS)		•		•			
Adversary Tactics & Training Readiness Knowledge Base (AT&TRKB)							
	k:						

Project 3482

R-1 Shopping List - Item No. 40-20 of 40-21

Exhibit R-4 (PE 0603260F)

Exhibit R-4a, RDT&E Schedule Detail February 2006									
SUDGET ACTIVITY 14 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603260F Intelligence Advanced Development	PROJECT NUMBER AND T 3482 Science & Tech Methodology							
U) Schedule Profile	<u>FY 2005</u>	<u>FY 2006</u>	FY 2007						
U) Completed Joint IADS View	4Q	1.40	4.0						
 U) Continue / Complete DIODE / Automated Correspondence Analysis System (ACAS) U) Initiated / Continue / Complete Command and Control (C2) Process Models 	1-4Q 2Q	1-4Q 1-4Q	4Q 4Q						
U) Initiate / Continue IDMATS Program	20	3Q	1-4Ç						
U) Initiate Adversary Tactics & Training Readiness Knowledge Base (ATT & RKB)		3Q	20						

Project 3482

R-1 Shopping List - Item No. 40-21 of 40-21

Exhibit R-4a (PE 0603260F)