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Exhibit R-2, RDT&E Budget Item Justification								Date: February 2002	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE				
RDT&E, Defense Wide, Budget Activity 7					PE 0605127T "PIMS"				
COST (\$ in Millions)	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	Cost to Complete	Total Cost
Partnership for Peace Information Management System (PIMS)									
Total PE Cost	1.914	1.908	1.920	1.962	2.005	2.055	1.842	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Partnership for Peace Information Management System (PIMS) is an OSD/C3I managed DOD leadership project supporting enhanced cooperation, bilaterally and multilaterally, in accordance with US policy and to US benefit. Firmly based on priority requirements, the Program has established a common, real-time information infrastructure that has given allies and Partner countries the ability to access and exchange information critical to the cooperative growth activities underpinning the spirit of PfP. PIMS is part of the NATO Enlargement Facilitation Act of 1996 and implements the Congressional endorsement for the modernization of Defense capabilities in eligible PfP countries relative to their telecommunications infrastructures. R&D funding is essential to ensuring PIMS can support this mandate.

PIMS supports PfP preparation for future coalition initiatives by development and integration of a full range of databases and advanced IT applications to support the practical aspects of US and NATO-approved PfP cooperative activities. In addition, special capabilities such as mapping and geodesy, multinational digitized imagery, and data derived from remote sensing technologies must also be integrated into PIMS if it is to provide the requisite mission support services necessary to achieve the interoperability/integration goals outlined in Joint Vision 2020 for working in concert with allied and coalition forces, especially in order to effectively coordinate counter-terrorism education and training efforts within this strategic region. This is particularly important in areas where the infrastructure is developing and areas where environmental and geopolitical conditions are unsettled. Many countries are subject to both refugee crisis and terrorist retribution. PIMS R&D funding will also be critical to the development of system enhancements necessary to support the SecDef's proposal for building an improved PfP education and training framework. The plan envisions a lead role for PIMS to provide research, development, and specialized engineering services in support of a distributed education environment via a Consortium of Defense Academies and Security Institutes; an exercise simulation network; and a cooperative network of nationally sponsored PfP training centers. Other senior DOD directed PIMS initiatives include an electronic crisis information exchange capability among the countries of Southeastern Europe. Finally, R&D dollars must be made available for PIMS technical developmental efforts associated with the Defense Information Infrastructure (DII), Global Information Grid (GIG) interoperability initiatives, and conformance with the Clinger-Cohen Act.

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Program Plans

- Development of databases to support OSD and Joint Staff policy objectives designed to enhance the PfP mission outlined in the Partnership Work Programme (PWP) that assist in the development of elements essential to national security. Near term goals include the expansion of information and research within the areas of Military Support to Law Enforcement (MSLE), Installation & Environment (IE), and Civil Emergency Planning (CEP); there is a critical need for effective IT capabilities that assist the PfP Nations on national and regional levels in the development of infrastructure requirements such as border control, emergency response and other capacity building capabilities (\$0.6 Million)
- Research, testing, evaluation, and integration of a new set of collaborative tools (hardware, software, and wireless applications) to be housed within a regional portal to assist in real-time exchange among users, to provide a repository for user generated and traditionally vetted information pertaining to activities within the PfP region, to coordinate planning requirements between US and national organizations and agencies working common goals and initiatives, and to develop a platform for the delivery of programs (nursing, distance learning, emergency medical training, etc.) related to Military Medicine. (\$0.8 Million)
- System enhancements in support of Military Support to Law Enforcement and DUSA-IA's Civil Military Emergency Planning (CMEP), which leverage new communications technologies, wireless applications, hand-held electronic devices (cameras, electronic mail, electronic notebook), and software to maximize PIMS accessibility, flexibility, and utility in support of increased US DOD processing requirements for preparedness in coalition operations (simulation, tools, exercise support, and interactive training), Storage Area Network (SAN) for the PfP hub to accommodate the expanding PIMS capabilities, provide the PIMS infrastructure with greater efficiency, manageability, scalability, and to link network hosts to multiple storage devices for data sharing among PIMS users. (\$0.5 million)

Specific Application and Process Improvements represent specific types of program and system improvements that will directly support development of OSD databases, interoperability initiatives, and communications enhancements. In addition, funds will provide directly support to the PIMS Program Office in implementing the multiple facets of the PIMS program for both US and Partners.

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B. Program Change Summary:

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
FY 2002 Previous President's Budget	1.914	1.922	1.920	
FY 2002 Amended President's Budget				
Adjustment to Appropriated Value				
Congressional reduction		(.014)		
Inflation Adjustment				
FY 2003 Budget Estimate Submission	1.914	1.908	1.920	

Change Summary Explanation

US Policy has put increased emphasis on DOD development of information capabilities that will serve not only coalition efforts in military operations but that will support non-traditional arenas such as Civil Emergency Planning and Military Support to Law Enforcement. Additionally, enhanced technical and procedural interoperability among US organizations, PfP nations, and allies remains a high priority.

C. Other Program Funding Summary

	<u>FY 00</u>	<u>FY 01</u>	<u>FY 02</u>	<u>FY 03</u>	<u>FY 04</u>	<u>FY 05</u>	<u>FY 06</u>	<u>FY 07</u>	<u>To Complete</u>	<u>Total Cost</u>
O&M (PfP)									TBD	TBD
O&M (PfP - PIMS)	5.443	5.0	6.0	6.0	6.0	6.0	6.0	6.0	Continuing	
Total PfP									TBD	TBD

D. Acquisition Strategy:

PIMS employs an evolutionary acquisition strategy by establishing a well-defined core capability while planning for incremental upgrades and enhancements to the overall system capabilities. Each enhancement is treated as an individual acquisition; its scope and content the result of continuous feedback from PIMS users, supporting organizations, and the desired application of new technology balanced against the constraints of time and cost. Whenever possible, existing assets are leveraged to preserve US IT infrastructure investments and offer an economically prudent solution to increase mission effectiveness across the spectrum of PIMS participants.

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E. Schedule Profile

Per developmental milestones listed below.

Quarter	<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>				<u>FY 2004</u>				<u>FY 2005</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Milestone I	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
II		x	x		x	x														
III		x	x		x	x														
IV		x	x		x	x	x	x	x	x										
V			x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
VI					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
VII						x	x		x	x	x	x	x	x	x	x	x	x	x	x
VIII							x		x	x	x	x	x	x	x	x	x	x	x	x

I Database Development – R&D support to multiple DOD international outreach initiatives, i.e. OSD/SOLIC (Peacekeeping), OSD/Policy (Environmental Security), Joint Staff (Exercise Planning and Professional Military Education (NDU)), OSD/Health Affairs (Medical Education), OSD/ISA (Distance Learning Initiatives), DUSA-IA (Civil-Military Emergency Planning), ASD/FM&P (Military Support to Law Enforcement)

- Identify information requirements, common formats and exchange mechanisms between, PfP, NATO, and US
- Develop databases and support mechanisms to allow collaborative data warehousing and sharing by relevant participants
- Test and execute solutions in exercise environment
- Upgrade/modify warehousing and data mining techniques
- Continued development of databases supporting US requirements
- Development of transitional approaches to other CINCS

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II Enhanced Network and System Management

Evaluate network management tools

Test in operational configuration and evaluate results

Implement Solution

Develop diagnostic tools for IT and systemic measurement

Enhance Security Accreditation

Technology enhancements: wireless applications, hand-held electronic devices (cameras, electronic mail, electronic notebooks)

Provide authentication access to the PIMS architecture with PKI

Implement the Storage area Network for data sharing among PIMS users and storage consolidation

III Mandated System Migration

Identify appropriate segments

Continued migration of PIMS servers to DII-compliant Architecture

Develop and tailor GCCS releasable applications to PfP mission requirements

Compliance with the DII/Common Operating Environment (COE)

Compliance with the Global Information Grid (GIG) and other DoD mandated networks and architectures

IV Alternative Commercial Satellite Solutions

Research video compression techniques and other state of the art IT communication enhancements

Test in operational environment

Implement initial solution

Enhance video capability

V Defense Messaging System (DMS) Integration

Evaluate requirement for implementation across constrained bandwidth architecture

Initiate for test and evaluation

PIMS modification/enhancement

Full implementation of DMS

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VI Expansion of Long Haul/Wide Area Communications Infrastructure

Assess current network capacity and new requirements

Design, engineer, and test necessary upgrades

Implement expanded, improved architecture

Continued evaluation of new technologies to enhance cost avoidance

VII Theater Interoperability

Evaluate interface requirements with existing target Theater and NATO systems

Develop required interface

Evaluate and test security guards, filters, and firewalls

Implement Virtual Private Network (VPN) to secure links to public networks

VIII Voice Systems

Identify voice over TCP/IP network solutions

Test and select most efficient process

Implement enhanced connectivity.

Research customer and mission driven security options.

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