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## OSD RDT&amp;E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

Date: February 2006

APPROPRIATION/ BUDGET ACTIVITY  
RDT&E/ Defense Wide BA# 3

PE NUMBER AND TITLE

0603942D8Z - Defense Technology Link (TechLink)

Cost (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total Program Element (PE) Cost		7.749	16.321	6.822	7.070	7.320	7.556	7.698
P343	Homeland Defense First Responders Technology Transfer	0.000	1.237	4.522	4.627	4.947	5.137	5.227
P942	Technology Link	7.749	15.084	2.300	2.443	2.373	2.419	2.471

**A. Mission Description and Budget Item Justification:** Defense TechLink is an element in the Department's technology transfer, transition, and acquisition activities. Its three-fold mission is (1) integration of advanced commercial-sector technologies into DoD systems, particularly from nontraditional defense contractors; (2) spin-off of DoD-developed technologies to the commercial sector to make these technologies more affordable for military acquisition; and (3) establishment of collaborative R&D projects with the private sector for cost-sharing of new dual-use technology development.

Defense TechLink has been highly successful at helping the Department transfer its technologies to U.S. companies, making these technologies available for both military and commercial applications.

TechLink is highly cost-effective and has provided a return on the investment to DoD of 4:1 on funds expended to date. This efficiently run organization currently accounts for 30 percent of all DoD patent license agreements (PLAs) and has brokered over 270 Cooperative Research and Development Agreements (CRADAs) and other R&D partnerships involving innovative companies new to DoD. The Congressional Record for November 18, 2003, page S15056, has a statement from Senator Burns (R-MT) commending TechLink for its outstanding achievements.

Beginning in FY 2006, the Defense Techlink Program is assisting DOD's Homeland Defense Office on first responder initiatives. The Homeland Defense First Responder Technology Transfer Project will enhance efficiency and continue cost effectiveness by leveraging off existing TechLink efforts to manage equipment and technology transfers to civilian communities and eliminate duplication of effort between Department of Defense parties involved in technology and equipment transfers to first responders. Funding to support this initiative was reprogrammed from a DOD's Homeland Defense program line into the Defense Techlink Program line during the FY 2006 POM process.

<b>B. Program Change Summary</b>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	7.985	3.435	3.433
Current BES/President's Budget (FY 2007)	7.749	16.321	6.822
Total Adjustments	-0.236	12.886	3.389
Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases		13.150	

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Reprogrammings				3.335
SBIR/STTR Transfer		-0.226		
Other		-0.010	-0.264	0.054

C. Other Program Funding Summary: Not Applicable.D. Acquisition Strategy: Not Applicable.E. Performance Metrics:

FY	Strategic Goals Supported	Existing Baseline	Planned Performance Improvement / Requirement Goal	Actual Performance Improvement	Planned Performance Metric / Methods of Measurement	Actual Performance Metric / Methods of Measurement
07						

Comment: For FY 2005, established patent license agreements (PLAs) totalling 30% of all DOD PLAs and assist in the brokering of over 30 Cooperative Research and Development Agreements (CRADAs)

For FY 2006, establish patent license agreements (PLAs) totalling 31% of all DOD PLAs and assist in the brokering of over 30 Cooperative Research and Development Agreements (CRADAs)

For FY 2007, establish patent license agreements (PLAs) totalling 33% of all DOD PLAs and assist in the brokering of over 30 Cooperative Research and Development Agreements (CRADAs)

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**OSD RDT&E PROJECT JUSTIFICATION (R2a Exhibit)**

Date: February 2006

APPROPRIATION/ BUDGET ACTIVITY

RDT&amp;E/ Defense Wide BA# 3

PE NUMBER AND TITLE

**0603942D8Z - Defense Technology Link (TechLink)**

PROJECT

**P343**

Cost (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
P343	Homeland Defense First Responders Technology Transfer	0.000	1.237	4.522	4.627	4.947	5.137	5.227

**A. Mission Description and Project Justification:** Leverages off existing technology transfer programs to meet the requirements of the FY 2003 National Defense Authorization Act, Section 1401. Meets the requirement to identify DoD technology items and equipment developed or being developed with the potential to enhance public safety and improve homeland defense. Evaluates technology items and procured equipment useful to first responders and facilitates technology items and equipment to Federal, State, and local first responders. Identifies and eliminates redundant and unnecessary research efforts while advancing high priority projects. Through participation in outreach programs, communicates with first responders and facilitates awareness of available technology items and equipment to support crisis responses. Monitors all DoD research and development activities to identify potential first responder applications; coordinates with other Federal Departments and Agencies to facilitate the transfer of technology from DoD to first responders; and assists in the transfer of technology and equipment for first responders.

**B. Accomplishments/Planned Program:**

Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Homeland Defense First Responders Technology Transfer:	0.000	1.237	4.522

Actively work with Federal, State, and local officials to identify and participate in outreach events and activities to communicate with first responders and facilitate awareness of available technology items and equipment to support homeland security and enhance public safety.

In conjunction with outreach program, ensures a successful and balanced transfer of equipment and technology without impeding military readiness. Manages what first responders receive, achieves a balance between first responders and military equipment, and transfers technology through a transitional effort that has dual utility to enhance military readiness. Identifies military equipment and technology that is currently being transferred or that has the potential for being transferred to first responders. Leverages off existing programs to transfer equipment from military to first responders and share information throughout DoD and Federal Agencies.

Eliminates duplication of effort between DoD organizations involved in the transfer of equipment and technology to first responders. Meets the Congressional intent of the FY 2003 National Defense Authorization Act, Section 1401. Identifies equipment with the potential to enhance public safety. Establishes an overarching government program to assure the efficient and effective transfer of technology equipment useful to first responders. Eliminates redundant and unnecessary efforts concerning equipment and technology transfer to first responders. Facilitates the transitions of high priority DoD projects from research through implementation of initial manufacturing. Communicates to first responders the availability of equipment and technology items to support homeland security.

**C. Other Program Funding Summary:** Not Applicable.

**D. Acquisition Strategy:** Not Applicable.

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PROJECT  
P343

E. Major Performers Not Applicable.

UNCLASSIFIED

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**0603942D8Z - Defense Technology Link (TechLink)**

PROJECT

**P942**

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
P942 Technology Link	7.749	15.084	2.300	2.443	2.373	2.419	2.471

**A. Mission Description and Project Justification:** Defense TechLink is a critical element in the Department's technology transfer, transition, and acquisition activities. Its three-fold mission is (1) integration of advanced commercial-sector technologies into DoD systems, particularly from nontraditional defense contractors; (2) spin-off of DoD-developed technologies to the commercial sector to make these technologies more affordable for military acquisition; and (3) establishment of collaborative R&D projects with the private sector for cost-sharing of new dual-use technology development.

Defense TechLink has been highly successful at helping the Department transfer its technologies to U.S. companies, making these technologies available for both military and commercial applications.

TechLink is highly cost-effective and has provided a return on the investment to DoD of 4:1 on funds expended to date. This efficiently run organization currently accounts for 30 percent of all DoD patent license agreements (PLAs) and has brokered over 150 Cooperative Research and Development Agreements (CRADAs) and other R&D partnerships involving innovative companies new to DoD. The Congressional Record for November 18, 2003, page S15056, has a statement from Senator Burns (R-MT) commending TechLink for its outstanding achievements.

Beginning in FY 2006, the Defense Techlink Program will assist DOD's Homeland Defense Office on first responder initiatives. The Homeland Defense First Responder Technology Transfer Project will enhance efficiency and continue cost effectiveness by leveraging off existing TechLink efforts to manage equipment and technology transfers to civilian communities and eliminate duplication of effort between Department of Defense parties involved in technology and equipment transfers to first responders.

**B. Accomplishments/Planned Program:**

Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Marketing of DoD Technologies:	0.739	1.074	1.440

FY 2005 Accomplishments: Undertook active marketing of DoD-developed technologies to United States companies to establish Patent License Agreements to commercialize these technologies for both civilian and military applications. The multiple objectives of this technology marketing activity are: (1) to accelerate the transition of DoD-developed technologies to the warfighter; (2) to lower the cost of DoD technology acquisition by developing a larger commercial market for dual-use technologies; (3) to provide a return of revenue to DoD labs from commercial spin-off of DoD-developed technologies; and (4) to fulfill DoD's Congressionally mandated technology transfer directives.

FY 2006/2007 Plans: Continue active marketing of DoD-developed technologies to US companies to establish Patent License Agreements to commercialize these technologies for both civilian and military applications. The multiple objectives of this technology marketing activity are to (1) accelerate the transition of DoD-developed technologies to the warfighter; (2) lower the cost of DoD technology acquisition by developing a larger commercial market for dual-use technologies; (3) provide a return of revenue to DoD labs from commercial spin-off of defense technologies; and (4) fulfill DoD's

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Congressionally mandated technology transfer directives.			
<b>Accomplishment/Planned Program Title</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
Dual Use Technology Deployment::	0.560	0.560	0.560
FY 2005 Accomplishments: Actively promoted and brokered Cooperative Research and Development Agreements (CRADAs) between DoD labs and industry for development of technology with both commercial and military applications. This activity focused on nontraditional defense contractors and is intended (1) to help lower the expense of new defense-related technology development through cost-sharing with industry, and (2) to help DoD benefit from private-sector technology investments and innovations.			
FY 2006/2007 Plans: Actively promote and broker Cooperative Research and Development Agreements (CRADAs) between DoD labs and industry for development of technology with both commercial and military applications. This activity will particularly focus on nontraditional defense contractors and is intended (1) to help lower the expense of new defense-related technology development through cost-sharing with industry, and (2) to help DoD benefit from private-sector technology investments and innovations.			
<b>Accomplishment/Planned Program Title</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
Spin-On of Advanced Commercial-Sector Technologies:	0.300	0.300	0.300
FY 2005 Accomplishments: Promoted the DoD Small Business Innovation Research (SBIR) (focus on Phase III contracts) and Independent Research and Development (IR&D) programs to companies in the Northwestern United States in order to help DoD identify, fund, acquire, and integrate private-sector innovations and advanced commercial technologies into DoD systems.			
FY 2006/2007 Plans: Actively promote the DoD Small Business Innovation Research (SBIR) (focus on Phase III contracts) and Independent Research and Development (IR&D) programs to companies in the Northwestern United States in order to help DoD identify, fund, acquire, and integrate private-sector innovations and advanced commercial technologies into DoD systems.			
<b>Accomplishment/Planned Program Title</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
CONGRESSIONAL ADD -- Technology Transfer IEE:	1.500	1.700	0.000
These funds are used to support the Technology Transfer Commercialization National Center of Excellence for First Responders (NCEFR), called First Link. The NCEFR will assess user needs and priorities, collect and evaluate potential DoD technologies for first responder use, identify non-DoD technologies that address DoD and first responder needs, and create and execute a marketing plan for these technologies. Measures of success will include technologies made available for first responder use. FY 2005 Accomplishments: Coordinated activities with DHS to establish First Responder needs list to query against DoD laboratories for technologies to transfer. Established two (2) partnerships.			
FY 2006 Plans: Continue assessing DoD technologies against First Responder needs, support transfer to First Responder community through demonstrations, assisting establish production capability, and coordinating with DHS.			
<b>Accomplishment/Planned Program Title</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
CONGRESSIONAL ADD -- Remote Presence:	1.700	1.700	0.000
These funds are used for the Remote Presence Program to extend the Marine Corps Warfighting Laboratory (MCWL) Dragon Eye and Dragon Runner and other emerging low cost remote presence technologies and enhances their capabilities to support multiple mission scenarios across all Services, joint operations and homeland security activities. Additionally, a model for transferring DoD-developed			

UNCLASSIFIED

227

UNCLASSIFIED

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<p>technologies will be developed and tested as an integral part of this effort. FY 2005 Accomplishments: Scoped work efforts, negotiated with Joint Robotics Program to ensure effort could fit into Dragon Runner program plans, and began contract negotiation.</p> <p>FY 2006 Plans: Host seminar for Virginia's universities and companies, begin joint R&amp;D leading to testing.</p>			
<b>Accomplishment/Planned Program Title</b>	FY 2005	FY 2006	FY 2007
CONGRESSIONAL ADD -- Technology Mapping:	1.950	2.000	0.000
<p>These funds are used to broaden DoD technology transfer management by providing seamless intellectual property (IP) workflow processes based on established benchmarks. This effort will fully integrate IP docketing, management, and advertising. Measures of success will be facilitation of 15 Cooperative Research and Development Agreements/Patent License Agreements and a direct connection to facilitating 10 other partnerships between DoD and the private sector. FY 2005 Accomplishments: Completed "mirror" websites for Army, Air Force, and DoD. Provided initial application for patent and lab capability searches and for technology needs "push" to private industry.</p> <p>FY 2006 Plans: Continue with application development, link with DTIC for database, finalize application for patent management (using IPMIS data), and establish 5 partnerships.</p>			
<b>Accomplishment/Planned Program Title</b>	FY 2005	FY 2006	FY 2007
CONGRESSIONAL ADD -- Environmental Bioterrorism Detection:	1.000	0.000	0.000
<p>These funds are to develop an Environmental Bioterrorism Detection Program which establishes a wildlife disease-monitoring network to collect and analyze near real-time clinical data from wildlife hospitals, wildlife rehabilitation organizations, veterinarians and individuals. The network will be coupled to the DoD/DHS network currently being developed for humans to provide a biosurveillance tripwire system at extremely low additional cost. This effort will design a way to transfer DoD-developed medical technology to the commercial market as a way to jointly pursue common objectives. FY 2005 Accomplishments: Scoped work efforts, negotiated with AFRL Information Directorate to ensure effort could fit into information technology program plans, and began contract negotiation.</p> <p>FY 2006 Plans: Host seminar for Virginia's universities and companies, begin joint R&amp;D leading to testing.</p>			
<b>Accomplishment/Planned Program Title</b>	FY 2005	FY 2006	FY 2007
CONGRESSIONAL ADD - Springboard:	0.000	7.750	0.000
<p>The Springboard resources are being evaluated for consideration in supporting potential Techlink activity for the Alaskan technology venture efforts initiated in FY 2004. If it is determined this funding can not be justified in part or whole for the explicit intent of Congress, DoD will request that the congressional committees approve the redirection of the funds to an appropriate program element under the "prior approval" process established for congressional interest line-items.</p>			
<b>C. Other Program Funding Summary:</b> Not Applicable.			
<b>D. Acquisition Strategy:</b> Not Applicable.			

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**P942****E. Major Performers**

Category	Name	Location	Type of Work and Description	Award Date
<b><u>Labs</u></b>				
	Air Force Research Laboratory	WPAFB, OH	Support continuing and new efforts in the TechLink program.	03 MAR 2005

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