OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

Date: February 2007

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

PE NUMBER AND TITLE
0603942D8Z - Technology Transfer

Cost ($ in Millions)		FY 2006 Actual	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total Program Element (PE) Cost		16.856	12.202	2.234	2.173	2.280	2.281	2.298	2.325
P343	Homeland Defense First Responders Technology Transfer	1.187	1.115	0.000	0.000	0.000	0.000	0.000	0.000
P942	Technology Link	15.669	11.087	2.234	2.173	2.280	2.281	2.298	2.325

A. Mission Description and Budget Item Justification: Defense Technology Transfer was referred to in previous budgets as Defense Technology Link (TechLink). This program title change serves to distinguish the Technology Transfer program from one of the program's successful contractors, TechLink of Montana State University.

Defense Technology Transfer 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 Technology Transfer 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.

Technology Transfer 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 350 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 Technology Transfer for its outstanding achievements.

In FY 2006, the Defense Technology Transfer Program began assisting DOD's Homeland Defense Office on first responder initiatives. The Homeland Defense First Responder Technology Transfer Project enhances efficiency and 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. In FY 2008, the Homeland Defense First Responders Technology Transfer project has been transferred to PE 0305186D9Z under the auspices of the Assistant Secretary of Defense (Homeland Defense).

B. Program Change Summary	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)	16.321	6.822	7.070	7.320
Current BES/President's Budget (FY 2008/2009)	16.856	12.202	2.234	2.173

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Total Adjustments	0.535	5.380	-4.836	-5.147
Congressional Program Reductions		-3.400		
Congressional Rescissions		-0.074		
Congressional Increases		8.850		
Reprogrammings	1.000			
SBIR/STTR Transfer	-0.465			
Other		0.004	-4.836	-5.147

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
08						

Comment: 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)
For FY 2008, establish patent license agreements (PLAs) totalling 34% of all DOD PLAs and assist in the brokering of over 30 Cooperative Research and Development Agreements (CRADAs)
For FY 2009, establish patent license agreements (PLAs) totalling 35% of all DOD PLAs and assist in the brokering of over 30 Cooperative Research and Development Agreements (CRADAs)

OSD RDT&E PROJECT JUSTIFICATION (R2a Exhibit)

Date: February 2007

APPROPRIATION/ BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
RDT&E/ Defense Wide BA# 3	**0603942D8Z - Defense Technology Link (TechLink)**	**P343**

Cost ($ in Millions)		FY 2006 Actual	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
P343	Homeland Defense First Responders Technology Transfer	1.187	1.115	0.000	0.000	0.000	0.000	0.000	0.000

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.

Starting in FY08, this program has been transferred to PE 0305186D9Z under the auspices of the Assistant Secretary of Defense (Homeland Defense).

B. Accomplishments/Planned Program:

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Homeland Defense First RespondersTechnology Transfer:	1.187	1.115	0.000	0.000

FY 2007 Plan: 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.

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C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Not Applicable.

E. Major Performers Not Applicable.

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APPROPRIATION/ BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
RDT&E/ Defense Wide BA# 3	**0603942D8Z - Defense Technology Link (TechLink)**	**P942**

Cost ($ in Millions)	FY 2006 Actual	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
P942 Technology Link	15.669	11.087	2.234	2.173	2.280	2.281	2.298	2.325

A. Mission Description and Project Justification: Defense Technology Transfer was referred to in previous budgets as Defense Technology Link (TechLink). This change serves to distinguish the Technology Transfer program from one of the program's successful contractors, TechLink of Montana State University.

Defense Technology Transfer 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.

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Technology Transfer 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 350 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 Technology Transfer for its outstanding achievements.

B. Accomplishments/Planned Program:

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Marketing of DoD Technologies	1.500	1.415	1.324	1.313

FY 2006 Accomplishments: Actively marketed 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 Congressionally mandated technology transfer directives.

As an example, TechLink (Montana State University) facilitated a patent license agreement of a perimeter security and surveillance system developed by the Naval Undersea Warfare Center, Newport, Rhode Island. The Navy and their commercial partner are working to incorporate the Navy technology with the commercial partner's geographic information system software to pinpoint the location and interpretation of a remotely located acoustic event such as a human or animal footstep or movement of airborne or ground-based vehicles. The technology offers great promise for activities such as remote border security or

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APPROPRIATION/ BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
RDT&E/ Defense Wide BA# 3	**0603942D8Z - Defense Technology Link (TechLink)**	**P942**

perimeter protection of critical infrastructure.

FY 2007/2008/2009 Plan: 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 Congressionally mandated technology transfer directives.

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Dual Use Technology Deployment	0.490	0.560	0.585	0.560

FY 2006 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 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. Continued to provide critical support to DoD labs by facilitating 31% of all of DoD's PLA's for the fiscal year. Also brokered over 35 new CRADA's between DoD labs and industry, thereby enabling DoD and industry to leverage technology development efforts by both parties.

FY 2007/2008/2009 Plan: Continue to 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.

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Spin-On of Advanced Commercial-Sector Technologies	0.258	0.300	0.325	0.300

FY 2006 Accomplishments: Actively 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 2007/2008/2009 Plan: Continue to 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.

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Technology Transfer IEE (Congressional Add)	1.700	1.450	0.000	0.000

Technology Transfer IEE is officially called the "Department of Defense's National Center of Excellence for Commercialization and Technology Transfer for First Responder Technologies" and is called FirstLink. The website for it is http://www.dodfirstlink.com.

FY 2006 Accomplishments: Coordinated activities with Department of Homeland Security (DHS) to establish a First Responder needs list to query against DoD laboratories for technologies to transfer. Facilitated 30 partnerships, including CRADAs, grants, SBIR awards, and PLAs. One of the Patent License Agreements facilitated is between NUWC Newport and GCS Resesarch. The technology is called Blue Rose. Blue Rose is a buried fiber optic line to relay acoustics to a central station for perimeter site monitoring. It meets a need for intrusion detection and surveillance for first responders. This action facilitates both civil and military first responder response action.

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FY 2007 Plan: FirstLink assesses user needs and priorities, collects and evaluates potential DoD technologies for first responder use, identifies non-DoD technologies that address DoD and first responder needs, and creates and executes a marketing plan for these technologies. Measures of success include technologies made available for first responder use.

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Remote Presence (Congressional Add)	1.700	0.000	0.000	0.000

Remote Presence and Environmental Bioterrorism Detection (EBD) are two projects being management through Virginia's Center for Innovative Technology and it's Institute for Defense and Homeland Security (IDHS). IDHS is a pilot program for bringing in private industry and university capabilities, matching with DoD laboratory research in these two areas, and jointly developing the capability for both civil and military needs.

FY 2006 Accomplishments: Under the EBD effort, seven projects were selected; under Remote presence, four projects were selected. All 11 projects were began in February with results pending. Plan of action developed, 11 projects initiated. The outcome is anticipated to be a roadmap for transition/technology insertion with Concepts of Operation, not point solutions.

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Technology Mapping (Congressional Add)	2.000	0.000	0.000	0.000

The Technology Mapping effort (known as TechMatch) facilitates technology transfer from the DoD laboratories to the commercial sector. The goal is to ensure commercial production of technology developed in DoD so it can be inserted into DoD items through the normal acquisition process. There are three key objectives to meet this goal:: 1) Foster collaboration activities between DoD, academia, and industry with emphasis on small business, 2) Facilitate a minimum of fifteen (15) partnerships between DoD laboratories and academia/private sector using technology transfer mechanisms such as, but not limited to, CRADAs, SBIRs, PLAs, educational partnership agreements, and contracts, and 3) Incorporate the Intellectual Property Management Information System (IPMIS) functionality as part of the automated capability in the DoD TechMatch System (http://www.dodtechmatch.com) to assist in better management of intellectual property for transfer.

2006 Accomplishments: TechMatch began work on the DoD Intellectual Property Management Information System (IPMIS) with requirements identification, system design, and coordination among the Services/Agencies and DTIC, where the information will be housed. Additionally, TechMatch facilitated five CRADAs. TechMatch facilitated transfer of robotics technology from Tyndall AFB to a start-up company in West Virginia to produce a BomBot for use in Iraq; the company reduced manufacturing costs and increased durability & reliability. As a result, the Navy awarded a $9.6M contract in January 2006 for 2,325 BomBots with first delivery in April 2006 successfully met.

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Springboard (Congressional Add)	7.021	6.362	0.000	0.000

Spring Board is a congressionally added effort to facilitate technology transfer from the DoD laboratories to the commercial sector in Alaska. The goal is to ensure commercial production of technology developed in DoD so it can be inserted into DoD items through the normal acquisition process.

There are 2 key objectives to meet this goal: 1) Foster collaboration activities between DoD, academia, and industry with emphasis on small business, and 2) Facilitate a minimum of 7 partnerships between DoD laboratories and academia/private sector using technology transfer mechanisms such as, but not limited to, CRADAs, SBIRs, PLAs, educational partnership agreements, and contracts. The focus is on Alaska's emerging technology sectors.

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FY 2006 Accomplishments: The Partnership Intermediary Agreement for this effort was signed on July 24, 2006, with kick-off in October 2006.

FY 2007 Plan: 1) foster collaboration activities between DoD, academia, and industry with emphasis on small business, and 2) facilitate a minimum of seven partnerships between DoD laboratories and academia/private sector using technology transfer mechanisms such as, but not limited to, CRADAs, SBIRs, PLAs, educational partnership agreements, and contracts. Increase capability for all partnership intermediaries to share information and facilitate communication among/between DoD technology transfer activities.

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Techlink Southeast (T2 Bridge) (Congressional Add)	1.000	1.000	0.000	0.000

T2 Bridge is a congressionally added effort to facilitate technology transfer from the DoD laboratories to the commercial sector in the southeast U.S. The goal is to ensure commercial production of technology developed in DoD so it can be inserted into DoD items through the normal acquisition process.

Congressional approval was given, and the partnership intermediary agreement was signed October 31, 2006.

FY 2007 Plan: There are two key objectives: 1) foster collaboration activities between DoD, academia, and industry with emphasis on small business, and 2) facilitate a minimum of 10 partnerships between DoD laboratories and academia/private sector using technology transfer mechanisms such as, but not limited to, CRADAs, SBIRs, PLAs, educational partnership agreements, and contracts.

C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Not Applicable.

E. Major Performers Not Applicable.