

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001	
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide/BA 4						R-1 ITEM NOMENCLATURE Humanitarian Demining PE 0603920D8Z				
COST (<i>In Millions</i>)	FY2000	FY2001	FY2002						Cost to Complete	Total Cost
Total Program Element (PE) Cost	18.200	12.611	13.512						Continuing	Continuing
Humanitarian Demining/P920t	18.200	12.611	13.512						Continuing	Continuing

(U) **A. Mission Description and Budget Item Justification**

(U) **BRIEF DESCRIPTION OF ELEMENT**

(U) This Humanitarian Demining R&D program element focuses on the testing, demonstration and validation of equipment suitable for immediate use in various international humanitarian demining missions and environments. The goal is to provide equipment to the international demining community so that they may assess the equipment's capabilities in actual demining conditions. This program focuses on R&D technology development that reduces the time and cost associated with demining while improving the overall safety of the operator. This is accomplished through the adaptation of commercial-off-the-shelf equipment, the integration of mature technologies, and the leveraging from past and current R&D project activity in the tactical countermine and unexploded ordnance clearance mission areas. The primary objectives this program aims to achieve in technological development are to improve existing mine/minefield detection; improve current wide area survey equipment; clear large areas faster and more efficiently with improved mechanical mine/vegetation clearance equipment; provide improved protection for deminers; detect explosives in buried mines (biosensors); confirm the presence of mines (verification); mark and map mines/minefields; improve post clearance quality assurance (QA) equipment; train deminers in mine awareness, and improve deminer hand tools. These areas of emphasis have been adopted as a direct result of an annual Humanitarian Demining Workshop, the most recent of which took place in July 2000.

UNCLASSIFIED

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE June 2001
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide/BA 4		R-1 ITEM NOMENCLATURE Humanitarian Demining PE 0603920D8Z

COST(In Millions)	FY 2000	FY 2001	FY 2002						Cost to Complete	Total Cost
Total Program Element (PE) Cost	18.200	12.611	13.512						Continuing	Continuing
Humanitarian Demining/P920t	18.200	12.611	13.512						Continuing	Continuing

(U) **Project Number and Title: P920t Humanitarian Demining**

(U) **PROGRAM ACCOMPLISHMENTS AND PLANS**

(U) **FY 2000 Accomplishments:**

(U) Completed development and demonstrations on the improvements of existing mine detection technologies to include detection to a depth of 27cm. Evaluated existing commercial-off-the-shelf handheld metal detectors suitable for detecting mines; identified those best suited for specific environments; and prepared a “consumer report“ that documents the data analysis and assessment of this International Pilot Project for Technology Cooperation. Completed development and demonstration of vegetation clearing devices and improved in-situ neutralization devices. Continued to develop and demonstrate improved protective equipment for deminer protection and comfort. Continued to leverage existing technology from the tactical countermine area to develop and demonstrate detection technologies used for discrimination and verification. Continued to develop mechanical clearance equipment suitable for large area reduction and QA operations. Deployed many prototype equipment items to mine infested regions of the world (Jordan, Egypt, Cambodia, Croatia, Kosovo, Namibia) supporting country requests for operational field evaluations. Continued to develop mine/minefield marking and mapping systems and large area survey equipment. Continued to develop information and instructional materials to support equipment field guides, mine awareness and training. (\$ 18.200 million)

UNCLASSIFIED

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE June 2001
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide/BA 4	R-1 ITEM NOMENCLATURE Humanitarian Demining PE 0603920D8Z	

(U) FY 2001 Plans:

(U) Continue to develop and demonstrate detection technologies for discrimination and confirmation to include leveraging existing technology from the tactical countermine area. Complete International Pilot Project Technology Cooperation Project documentation. Initiate/complete operational field evaluations of mine/vegetation clearance systems in mine infested regions of the world to include Angola, Namibia, Cambodia, Thailand, and Mozambique. Complete and distribute the 2000-2001 Humanitarian Demining R&D Program Developmental Technologies catalog that reports on progress in developing equipment to assist with the global demining effort. Continue to develop and demonstrate individual deminer protective equipment. Continue development of equipment suitable for area reduction and quality assurance operations. Continue to develop information and instructional aids that improve mine awareness and the quality of deminer training. Initiate a wide area detection cooperative endeavor with international partners.
(\$ 12.611 million)

(U) FY 2002 Plans:

(U) Continue to develop and demonstrate detection technologies for discrimination and confirmation to include leveraging existing technology from the tactical countermine area. Continue operational field evaluations of mine/vegetation clearance systems in mine infested regions of the world. Continue to develop and demonstrate individual deminer protective equipment. Continue development of equipment suitable for area reduction and quality assurance operations. Continue to develop information and instructional aids that improve mine awareness and the quality of deminer training. Continue wide area detection cooperative endeavor with international partners.(\$ 13.512 million)

UNCLASSIFIED

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE June 2001
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide/BA 4	R-1 ITEM NOMENCLATURE Humanitarian Demining PE 0603920D8Z	

(U) <u>B. Program Change Summary</u>	<u>FY2000</u>	<u>FY2001</u>	<u>FY2002</u>	<u>Total Cost</u>
Previous President's Budget Submit	18.618	12.728	13.733	Continuing
Appropriated Value	0.000	12.728	0.000	Continuing
Adjustments to Appropriated Value				
a. Congressionally Directed Undistributed Reduction	0.000	-0.089	0.000	
b. Rescission/Below-threshold Reprogramming, Inflation Adjustment	-0.418	-0.117	0.000	
c. Other	0.000	0.000	-0.297	
Current President's Budget	18.200	12.611	13.512	Continuing

Change Summary Explanation

(U) **Funding:** FY 2000 funding was reflected on the FY 2000 Omnibus reprogramming. FY 2001 reductions reflect Section 8086 adjustments.

(U) **Schedule:** N/A

(U) **Technical:** N/A

UNCLASSIFIED

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE June 2001
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide/BA 4	R-1 ITEM NOMENCLATURE Humanitarian Demining PE 0603920D8Z	

(U) C. Other Program Funding Summary Cost N/A

(U) D. Acquisition Strategy: N/A

(U) E. Schedule Profile: N/A

UNCLASSIFIED