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. (TRP)

가 ,

1993~1994 가 1992 . 1992

1. 가 '92

가 ,

가

1993 2 「 」 .

가 가 가 가 가 가 1993 11 1994 8 , 가 가 가 가 가 가 가 (ATP) (CRADA_s) (PNGV) 」,「 (NEMI)」가 가 가 가 가

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271

3가 .

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2.

1993

(TRP: Technology Reinvestment

Program)

ARPA가

. < 1>

1993 95

ARPA

ARPA

1 >

, 1993~1995

	1993	1994	1995
Department of Defense Dual-Use Technology Reinvestment	882	1,441	1,429
Technology Reinvestment Project (TRP)	465 ¹		
Dual-Technology Partnerships	82	150	i
Commercial-Military Integration Partnerships	j 42	100	1
Regional Technology Alliances	91	100	
Advanced Manufacturing Technology Partnerships	23	30	
Manufacturing Engineering Education Program	- 48⁴	24	{
Manufacturing/Technology Extension	179	ļ	1
SBIR	: 77		-
MARITECH	1:	30	40
Reprogramming/Undistributed Funds	-	120	535
Related TRP programs	† 91	270	157
Agile Manufacturing/Enterprise Integration	29	35	
Advanced Materials Partnerships	29	30	
US Japan Management Training	9	5	
Other/DPA	24	200	107
Navy Reinvestment Initiative	1		50
SBIR refocused to dual-use	85	161	161
Electronics and Materials Initiatives	241	268	148
High definition systems	92	85	68
Optoelectronics	23	32	26
Metal matrix and ceramics	9	31	3
Diamond substrates/multi-ship modules/high temp	23	27	1
superconductivity	1	j	
Military Medical/Trauma Car Technology	i .	1] 15
Battery technology	1	6	
Multi chip modules	22	29	25
Advanced lithography	71	58	10
Additional Dual-Use Initiatives	٠.	188	338
Composite materials manufacturing/Microelec. Manuf./Microwave		4	22
High Performance Computing	} :	1	43
Infrared Focal Plane Array	1.	7	11
Manufacturing Technology Initiatives		3	12
Electronics Modules	1.2	27	64
Software Engineering			3
Materials Processing		25	30
Electronics Processing		11	11
Advanced Simulation		16	36
High Temperature Superconductivity	ļ :.	3	

	Vol.5 NO.8 (77 1995.8) 011				
ı	Advanced Simulation	1 :.	ן זס ן	JIO	ı
Ì	High Temperature Superconductivity		3		ŀ
ı	Intelligence System Software		29	55	
ļ	Environmental Electronic Manufacturing		20	11	
ı	CALS		42	40	ļ

^{*} Administration's FY 1995 Budget Request

NOTE: Totals may not add due to rounding.

자 료: 예산관리국(OMB) 미발표 데이타

자 료: 예산판리국((OMB) 미발표 데이타		•		
. AR 가	PA . ARPA	SEMAT	ECH		
TRP TRF 가 .		. TRP ARP	A		志向 .
1992					
1992 6 , ARPA(가 .	DARPA) ^r		1	1992	7가 6,000
1992 4 20 , 7가 ,	6,000	3가) DA	RPA	1992 1992
1992 , 超密	(MCC)	가 , 全	光通信	· , , ,	,
1993					
1993 , 1993	,	,	기 가	'	,
	Agile		,	,	MARITECH
< 1>	가			, 가 ·	
	(TRP)				
6 ()	NIST, , NA	가 ASA NSF	(TRP) ARPA	. 1993 기	3

The FY 1993 TRP solicitation included \$7 million in SBIR funds to equal \$472 million. FY 1993 TRP funds exclude on-going programs not subject to TRP criteria.

i FY 1993 funds support program over two year period. Department of Commerce has additional funds for Extension Programs.

Includes \$20.1 million in FY 1992 funds redirected to the TRP.

These programs may be included in the TRP in FY 1995.

Funding represents program levels above the FY 1993 levels.

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TRP
                                                                                         가
             6
                            7,100
                                       (1993
TRP
             4가
                                                           (DTCC)
                   가가
         (SBIR)
                                           가
  1993
                                                                    , TRP
                                                                                     가
TRP
                                                                                             가
                                                     TRP
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가
  TRP
TRP가
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3.
                                                                                          가
           가
                                                               가
                                                            (NIST)
                         (NIH)
1980
                                                 г 1986
                                                                            99 - 502) 」
                                                                                        1986
                           (CRADAs)
                                             가
                                         가
                                                  私企業
                 反
                       10%
                                                                                     가
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가 가가

1993 690 , 230

2> . .

2가 ()

(1) :

Lawrence Livermore

Los Alamos

< 2> 1993

(단위: 100만 달러)

기 관	₹ R&D	연방연구소
총무부	1,337	899
상무부	622	477
국립표준연구원	231	1 59
연방대기해양국	379	307
국방부	36,155	9,5 9 7
· 장· 공군	12,652	1,416
ਪ ੋਟੋ	5,737	2,263
- 해군	8,754	3,248
국방부 산하 기관	8,397	2,337
애너지부	6.731	4,745
보건 및 인적서비스부	11,143	2,443
내 무부	541	482
미항공우주국	8,629	3,397
총 계	69,754	23,309

Vol.5 NO.8 (77 1995.8) 011 Sandia (2) Fermi Berkely Argonne Brookhaven Oak Ridge Idaho . 1993 가 3) 1988 3> '93 34 5가 가 (NCTTA) 1989 가 가 CRADAs CRADAs 가,

, 3

http://www.stepi.re.kr/upload/product_stp/AB01 - 1995 - M08 - 011.HTM (8 / 12)2006 - 05 - 16 3:49:14

3 > 1988

1993

(단위: 100만 달러)

연도	로펜스 리버모어	로스 알라모스	산디아	গু-শ
1988	895.6	884.4	1,068.1	2,848.1
1989	953.0	902.3	1,081.6	2,936.9
1990	983.5	926.0	1,110.6	3,010.1
1991	1,052.5	947.5	1,134.7	3,134.7
1992	1,022.6	1,010.9	1,276.6	3,310.1
1993	963.0	1,104.8	1,350.0	3,417.8

자료: 미국 에너지부(DOE)/의회기술평가국(OTA)

76% ,	67%	, 71% , 1989 8	, . 5 , 1987 78% 7%가 87% 78% . 50	. 1993 · 가 ·	1988
,	, 가		DOC)가 가 (가) Owned, Contructer Operated)		3 DE
對	가 對		, 가 가 .	가	
	:	. 가 ·	가	가	

1/2

г 1980 (OTRAs) . OTRAs 가 OTRAs가

가 1980 , 1982 , 1984 ·州 5 (

(CRADAs) 가

CRADAs 가

가 (NCTIA) 가 (NTI)

가

(TRP), (CRADAs) (ATP), . ATP (NII) 4가 前 . TRP

(CRADAs) . CRADAs . NII

(ATP)

(NIST) (ATP) 1988 . ATP

(CRADAs)

1986 , (FTTA) CRADAs 가가 가 **CRADAs**

가 가 CRADAs , NIST 가 CRADAs

(NII)

NII . NII

(단위: 100만 달러)

	· ·			(27).	100단 필터)
	1994	1995	1996 * *	1997 • •	1994~97
새로운 연방 하이테크기술 투자 =	907	1,734	2,054	2,444	7.139
Direct Conversion Opportunities* 에너지부				<u> </u>	
Cooperative R&D Government/industry partnerships 이항공우주국	112	124	149	174	559
Aeronautics Initiative	160	218	275	333	986
New Technology Investment 교통부	42	67	86	37	232
Intelligent Vehicle Highway System 범부처 합동프로그램	60	135	l 40	150	485
High-performance Computing	130	268	268	268	934
Subtotal: Direct Conversion Opportunities Some Other Conversion Opportunities	504	812	918	962	3.196
상무부					
Information Highways	26	ι00	150	150	426
National Institute of Science and Technology (NIST) 에너지부	139	426	550	776	1.891
Renewable Energy and Conservation R&D 환경보호칭	183	435	526	620	1.764
Environmental Technology 범부처 합동프로그램	36	80	120	170	406
Government Automation and Modernization (IRS/SSA)	422	802	925	1.248	3.397
Subtotal: Some Conversion Opportunity	403	922	1.136	1.482	3.943
(50% of total)			HULLER		1 4741
교 통부					1
National Shipbuilding Intiative	50	50			100
	<u> </u>				100

^{*} Administration's FY 1995 Budget Request; * * Administration's Budget Projections.

Note: Totals may not add due to rounding.

Source: Office of Management and Budget, unpublished data.

자료: 예산관리국(OMB) 미발표 데이타, 1994년

Only funding above the FY 1993 level is shown.

b These programs offer some technology opportunities to defense firms and workers.

Funding for FY 1996 and FY 1997 reflect the FY 1995 level since details beyond FY 1995 are not available.

d These programs offer some technology opportunities to defense firms and workders. Only 50 percent of the funds are included.

[•] FY 1994 funding for this program was provided to the Department of Defense.

<朴敬善編譯>

JETRO

)

(PNGV), (NEMI) . 가 NIST 가 1995 3,000 2,500 . 1995 Agile 3,500 . NIST . 1995 94 2,920 NIST (MEP) Agile 가 (TEMA) 70 가 . TEMA Agile . 1994 10 , NASA (AITP) (HPCC) (HPCC) . HPCC . HPCC NII

Technology Bulletin 350 "米國の國防轉換技術政策の動向"