

/ISSUES

1)

, 1945 Vannevar Bush

가

가

1980

. 1993

1990

'(U.S. Technology Policy)

가

1994

가

가

가

가 (OTA) 가

(1995)

R&D 가

(1996)

1997

'가 21

(State of Union Address)

5

310

"21

"(21st

Century Research Fund)

4

가

1 - 2

"Regional Innovation Summit"

6

R&D

가

가

1997 105 Sensenbrenner. Jr(R - WI)

NewtGingrich(R - GA)가

(Committee on Science)

F. James

6

Bill Frist ' R&D

(R - TN) John Rockefeller(D - WV)

R&D

1. 가 (National Science Policy Study)

1)

가 21

7 - 8

2)

(entrepreneurial bottom - up capitalism)

, WTO

2 "Pax Americana"

R&D 가 V.Bush (,)

Ehlers

150,000

" 가 "

2)

10 12

7

가

가

10

가

가

()

가

21

가

4

가 GDP 0.5%)

가

10%

1/4

[1997

2/3

(130) (

()

가

(public support)

가

가

1987

(TIMSS)

35

(< 1 >).

2.5%

41

1996

IMD

3

4

가

가

3

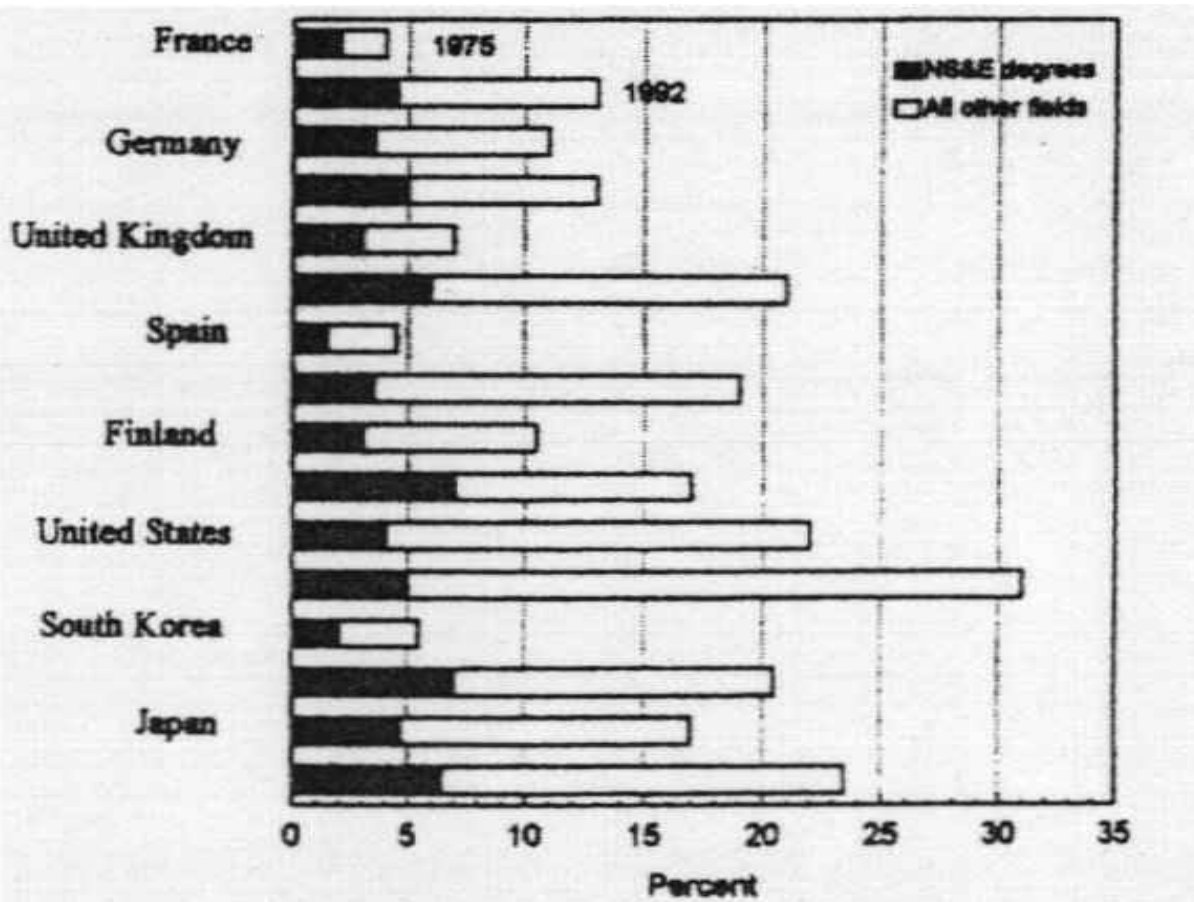
< 1 > 가

분 야	미 국	프랑스
연구개발 총투자(Total expenditure on R&D)	1	4
노벨상(Nobel prizes)	1	4
과학 및 교육(Science and education)	35	5
자격 있는 엔지니어(Qualified engineers)	28	3
기초연구(Basic research)	4	7
과학연구(Scientific Research)	1	6

출처: 'The World Competitiveness Yearbook' IMD, 1996

(,) 가 가
 (CRS) (,)
 4 1 " 가 R&D 가 R&D
 가 가
 非

< 1 > (NS&E) ('75~'92)



출처: NSB. Science and Engineering - 1995에서 재인용

(< 1 >). 가 가 (Scientist Gap)

.3)

5 14

George Brown('Mr. Science') "

가

. Ehlers

가

가

가

3 25

가

가

가 (foreign aid)

R&D

Sensenbrenner

가

(DOS)가 가

(Science competence)

(Labor Day) 9 (7 가

2. (Federal Research Investment Act)

R&D 2010 R&D

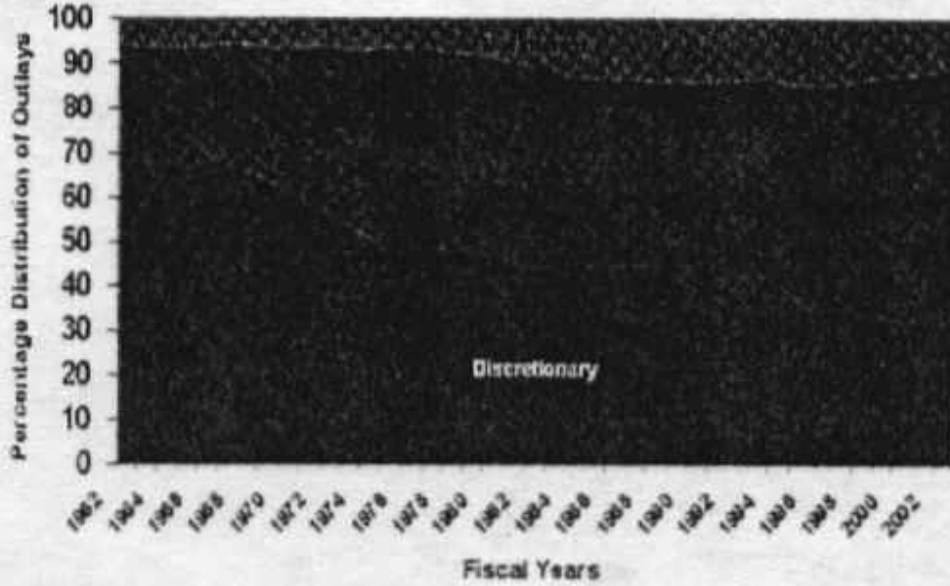
倍加 " (FRLA) 6 Bill Frist

(R - TN) John Rockefeller (D - WV) Phil Gram

(R - Tx), Joseph Lieberman (D - CT), Pete Domenici(R - NM) Jeff Bingaman(D - NM)

< 2 > (FY 1962 - 2003)

Comparison of Mandatory, Discretionary and Net Interest Outlays (FY1962-2003)



Fiscal Years 1962-2003 are not shown
Source: Science Magazine, based on the Budget of the United States, FY 1962, Historical Tables, Table 4.2

CHART 1.1

출처: Overview of The President's FY 1999 Budget에서
재인용

가 (National Research Investment Act)

가 R&D 가 R&D 가, 가 R&D entitlement 30 가 (mandatory spending) (discretionary spending) 33% 4) 가 R&D R&D 2.1%) 1999 R&D 377.2 가 R&D 2.5%(3%) 14 (, NIH, DOE, NST) 가 679.7 가 가 R&D 가 R&D : 1) R&D : 3) 2) 2010 (, ,) 가 R&D (guiding principles) " (Science and Technology Caucus)가 R&D

定義 , R&D

(OSTP) 가 (NAS) R&D 가 R&D
1993 (GPRA)

가 R&D

9 .5)

3.

(가 , 가) 가 (,) 가 . ,
가)

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(가

1.

가 100 (1987 - 88)

가 (< 2> 1987).

가

< 2> 對 對美

11)

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"가

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- 2) Committee on Science, U.S. House of Representatives. Hearing on International Science. March 25, 1998.
- 3) Committee on Science, U.S. House of Representatives. Hearing on Math and Science Education Part II: Attracting and Graduating Scientists

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1) (Tel: 02 - 250 - 3052/ e - mail: yschoi @stepimail.stepi.re.kr)

2) 1980 4 4 가 7 3 2
9 55%가 3 1 2/3 가

- 3) 1945 V.Bush가 (social contract) 가 argument)" 가 가 " " 가 V. Bush (Science as culture
- 4) 2 Gingrich 8
- 5) Gram Committee) 10 (pigeonholed) (The Senate Labor and Human Resources Frist
- 6) (Diet), (European Parliament), (Duma) 1982 (Japan - U.S. Joint Parliamentary Meeting on Science and Technology) 1996 9 Technology in Diet) (CRS) (OTA) (STA) (Research Office for Science and CRS(
- 7) 가 가 再選) 가. (가 가 가
- 8) (KIEP) 1995
- 9) 3
- 10) 1995 '가
- 11) " 가 1982 Jushiro Komiyama 1980

