

:

\*

1.

가

( )

가가

가

가

가

가

가

\*  
e-mail: jmpark@stepi.re.kr

(Tel: 02-3284-1822 /

\*\*

「

(2001)」

2.

1998 . 6.0 R&D  
 18.4 , 13.7 ,  
 11.6 EU ,  
 , 가 (< 1> ).

< 1> R&D

( : )

가	1995	1996	1997	1998
	7.3	6.4	6.3	6.0
	-	-	-	-
	14.2	13.3	13.2	13.7
	11.6	11.5	11.6	11.6
	9.5	-	-	-
	6.6	7.2	7.8	-
	13.3	-	16.4	18.4
	8.9	-	-	-
	10.8	11.4	11.9	-
	4.1	-	4.7	-
	5.0	5.4	5.3	5.9
	12.6	12.5	12.3	-
	6.1	6.1	6.0	-
	10.7	10.7	10.9	-
	6.6	-	-	-
	3.2	-	3.6	-
	14.5	-	15.4	-

: OECD, Main Science and Technology Indicators (2000)  
 : 1993

OECD

R&D

1995  
 가  
 , , 12%, 21% 36%

4%, 7%

1982 가 1997 74,665 1998

가

< 2> (1999 )

				( : )
	134,568(100)	13,982(10.4)	50,155(37.3)	70,431(52.3)
	42,134(100)	5,614(13.4)	32,367(76.8)	4,153(9.8)
	46,231(100)	6,608(14.3)	16,327(35.3)	23,296(50.4)
	40,340(100)	1,561(3.9)	907(2.2)	37,872(93.9)
	5,863(100)	199(3.4)	554(9.4)	5,110(87.2)

: , 2000 (2001)  
 : ( )

1999

76.8% 가  
 (< 2> ). 1998 78.2%  
 1997 75.4%  
 12%  
 가

( < 3 > ). 가

40% 65%

6%

54%가

가 . 가

가 . 가 가

< 3 >

( : )

1996	108,780(100)	18,956(17.4)	10,188(9.4)	79,636(73.2)
1997	121,858(100)	20,689(17.0)	12,716(10.4)	88,453(72.6)
1998	113,366(100)	20,994(18.5)	12,651(11.2)	79,721(70.3)
1999	119,218(100)	19,792(16.6)	14,314(12.0)	85,112(71.4)

: , 2000 (2001)  
: ( )

3.

“ - ” . < 4 >  
(U-R )

(R-U ) 5



1)

2)

IMF

가

< 5 >

( : , %)

1998	7	9	27	43
1999	8(1.5)	26(3.4)	100(10.2)	134(5.9)
2000	29(5.6)	61(8.1)	149(15.3)	239(10.7)
2001. 4	10(2.1)	23(2.8)	59(5.9)	92(4.0)
	54	119	335	508

: ( )

1998

가

( < 5 > ).

1998 1.9%<sup>3)</sup>, 1999 5.9%, 2000 10.7%  
 2001 4 4.0%

1998 7.3%, 1999 8.7%, 2000 10.2% 가

2001 4 3.5%

( < 6 > ).

---

2) , , 19

3) 1998 1999

< 6 >

( : , %)

1998	16	40	110	166
1999	27(5.1)	37(4.8)	134(13.7)	198(8.7)
2000	35(6.7)	38(5.0)	156(16.1)	229(10.2)
2001. 4	27(5.6)	5(0.6)	49(4.9)	81(3.5)
	105	120	449	674

: ( )

30 40 가

77.9% 13.0% .  
 60 11.7%, 50 가 11.5%  
 30 40 가 38.4% 39.3% 30 · 40  
 32.5% 30.6%  
 101 52.5% 53 1998

가 2000  
 , , ,  
 30

2)

, ,

568

.4)

52.9% 50.9%가

30.6%

45% 가

13% , 26% ,

14% ,

1%

< 7 >

( : , %)

	135(56.3)	242(86.7)	15(30.6)	392(69.0)
	105(43.7)	37(13.3)	34(69.4)	176(31.0)
	240(100.0)	279(100.0)	49(100.0)	568(100.0)

: ( )

가

31.5% ,

43.7% 69.4%가

13.3%

( < 7 > ).

4)

240

, 279

49

57.2%가

0.18

0.39

.5)

가

가

10.7%가

(

)

40.6%가

32.6%

(< 8 > )

53.8%

20.8%

46.9%

< 8 >

( : , %)

	50(20.8)	150(53.8)	23(46.9)	223(39.3)
	21(8.6)	87(35.9)	13(26.5)	121(21.3)
	5(2.1)	13(4.7)	3(6.1)	21(3.7)

: ( )

가

. <

9 >

가

14.6%가

5)

가

1.4%

53.1%가

6.8%

< 9>

( : , %)

	32(13.3)	4(1.4)	3(6.1)	39
	35(14.6)	14(5.0)	26(53.1)	75
	38(15.8)	19(6.8)	5(10.2)	62
	105(43.8)	37(13.3)	34(69.4)	176

1.

2. ( )

3. 2

가

. < 10>

가 52.7% 가

32.9%, 32.0%, 31.3% 가

가

가

가 82.5% 59.1%

64.2%

가

3)

DB

6)

3,629

DB

. . . ,

, , , , KAIST, ,  
가 7

, , , ( ), 8  
DB 가

. 가 26.5% 943 , . 942 ,  
562 , 461 가  
1,735 ( 47.8%), 467 (12.9%), 1,427

가 89.7% ,  
7.2% 4.9%

DB

, . , ( ) 가  
, . , 가

90% 가  
90%가

가 ,

60%

1

, 24%

2

6)

DB

DB

(2001)

가

가

< 10>

( : %)

	31.3	29.8	12.2
.	32.9	52.7	46.9
.	32.0	11.5	8.1
	3.8	6.1	32.7

4.

7)

$$(1) d_i = \beta_0 + \beta_1 uedu_{ij} + \beta_2 pedu_{ik} + \beta_3 pd_i + \beta_4 ep_i + \beta_5 ep_i^2 + \xi_i$$

$d_i$        $i$ 가

7)

(1999)

(2001)

가 ,  $uedu_{ij}$  ,  $pedu_{ik}$   
 ,  $pd_i$  ,  $ep_i$

. . . , (1)

(dichotomous)  
 probability model)

0 1

가

가

(linear

가

가

.8)

$$(2) W_i = \beta_0 + \beta_1 uedu_{ij} + \beta_2 pedu_{ik} + \beta_3 pd_i + \beta_4 ep_i + \beta_5 ep_i^2 + \beta_6 tenur_i + \beta_7 tenur_i^2 + \beta_8 cjob_i + \beta_9 sex_i + \xi_i$$

$tenur_i$  ,  $cjob_i$  ,

$sex_i$  .

8)  
 MaddaLa(1983)

Greene(2000) and

가

가

가

153

403

4,633

가

4,290

가

183

4,816

가

4,693

4,640

가

9)

10.6 ,

11.1 ,

7.1

가

20.9%

가

9)

, , 가 ,

0.23% 가 1 0.32%

5.

(science, technology,  
and innovation policy) (innovation policy)  
(mobility policy),

.<sup>10)</sup> EU 10

가

. EU

EU

35%

60%

(< 11> 11).

---

10) EU

17

11) EC(2000) (2001)  
(mobility policy index)

< 11> EU 가

	AT	BE	DE	DK	ES	FI	FR	GR	IE	IT	LU	NL	PT	SE	UK
I.															
I.1.	0	0	2	0	1	0	1	1	1	1	0	2	1	0	3
I.2.	1	3	1	1	2	0	2	0	0	3	0	0	0	0	1
I.3.	1	7	1	1	0	0	1	1	1	2	0	1	1	0	3
I.4.	1	10	0	0	1	0	0	1	2	0	0	0	0	0	5
I.5.	0	2	0	0	0	0	1	0	0	4	0	0	1	0	1
I.6.	2	6	0	0	0	2	1	0	2	0	0	0	0	0	3
II.															
II.1.	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
II.2.	1	4	0	0	0	2	0	1	1	0	0	0	1	0	4
II.3.	0	0	2	0	0	0	0	0	0	5	0	0	1	1	0
II.4.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
II.5.	6	6	3	0	4	2	3	4	4	8	1	2	0	1	3
II.6.	1	0	1	0	0	0	1	0	0	0	0	0	1	0	3
III.															
III.1.	1	1	2	0	0	0	2	8	8	4	0	0	0	0	4
III.2.	2	6	5	0	2	1	1	3	3	2	0	7	1	0	0
III.3.	6	4	5	1	0	0	3	2	2	1	1	1	1	2	2
III.4.	5	9	5	0	2	3	4	2	2	7	0	6	1	2	7
III.5.	0	4	6	0	3	0	4	2	2	3	0	2	1	2	4
	5	9	6	1	4	3	6	2	1	8	0	8	1	2	7
	.28	.27	.35	.33	.67	.75	.40	.11	.11	.53	.0	.62	.17	.40	.35
	18	33	17	3	6	4	15	19	9	15	2	13	6	5	20

.EC, European Trend Chart on Innovation (2000)  
: 1997  
Acronyms: AT(Austria), BE(Belgium), DE(Germany), DK(Denmark),  
ES(Spain), FI(Finland), FR(France), GR(Greece), IE(Ireland),  
IT (Italy), LU(Luxembourg), NL(Netherlands), PT(Portugal),  
SE(Sweden), UK(United Kingdom)

EU

가

가 , 가 가  
가 EU 가 .  
EU ,  
.

6.

20 . . (socioecotechnological  
framework)  
,12) 200  
가  
, 1770  
, , ,  
,

---

12) 4 . 1  
, 2 ,  
3 , 4  
. 1980  
, ,  
.

가

가

가

가

가

가

, (2001), 「  
: 」,

(1999). 「 」,

, (2001), “  
”, , No. 217, pp. 6-12.

(2001), 「2000 」.

(2001), 「 : 」 .

(1998), 「 」 .

Cervantes, Mario(1999), "Background Report: Analysis of Science and Technology Labour Markets in OECD Countries," OECD Workshop on Science and Technology Labour Markets, Paris: OECD.

European Commission (2000), *European Trend Chart on Innovation: Overview Report*.

Greene, W. H.(2000), *Econometric Analysis* (4th ed.), Prentice Hall.

Maddala, G. S.(1983), *Limited-Dependent and Qualitative Variables in Econometrics*, Cambridge University Press.

Nas, Svein Olav, Anders Ekeland, Eric Iversen, Mikael Akerblom, Markku Virtaharju, Christian Svanfeldt, Jonny Ullstrom (1998), "Formal Competencies in the Innovation Systems of the Nordic Countries: An Analysis Based on Register Data," STEP Report R-06/98.

OECD (2000), *Main Science and Technology Indicators*, Paris: OECD.