

( , 02-3284-1870, triple@stepi.re.kr)

1.

1997 12 1,858 (128 1 )  
 1998 IMF 11 3,366 (81 4 )  
 가 1999 11 9,218 (100 2,300 ) 가  
 , GDP 2.5%  
 (< 1> ).

< 1> (G7) ( : , %)

	1994	1995	1996	1997	1998	1999
	9,824 (2.44)	12,244 (2.50)	13,517 (2.60)	12,812 (2.69)	8,104 (2.55)	10,023 (2.46)
	169,270 (2.52)	183,694 (2.61)	196,995 (2.66)	212,246 (2.71)	226,653 (2.74)	247,227 (2.84)
	123,539 (2.63)	142,133 (2.77)	130,126 (2.83)	122,275 (2.91)	133,168 (3.06)	-
	47,592 (2.28)	55,488 (2.26)	53,761 (2.26)	48,339 (2.29)	49,316 (2.29)	-
	31,622 (2.34)	35,879 (2.31)	35,693 (2.30)	31,166 (2.21)	31,681 (2.18)	-
	21,497 (2.08)	22,364 (1.99)	22,574 (1.92)	24,170 (1.84)	25,755 (1.83)	-
	10,784 (1.05)	10,967 (1.00)	12,415 (1.01)	11,497 (0.99)	12,115 (1.02)	12,219 (1.05)
	9,261 (1.67)	9,523 (1.64)	9,613 (1.60)	10,031 (1.61)	9,714 (1.64)	10,034 (1.61)

: ( ) GDP

: (2000).

GDP  
가  
1998 2.66%  
2.24%('97 ) 2.58%('97 )  
3.88%('97 ) 4.35%('98 ) (< 2> ).

가

가

< 2>

( : , %)

	('98)	('98)	('97)	('97)	('97)	('97)
	2,098 (1.0)	73,639 (28.1)	24,817 (15.1)	18,057 (6.1)	14,607 (3.9)	9,461 (3.0)
	2.66	4.35	3.88	2.58	2.24	-

: ( ) 1

: 가 (1999).

1999 72.5%, 22.9%, 4.5%, 0.1% OECD 가  
 10% 가  
 30 40% (< 3> ).

< 3>

( : %)

가					가				
	49.2	31.2	5.7	13.8	가	36.1	56.2	0.4	4.9
	16.9	71.1	9.5	2.5		41.7	51.2	0.9	6.2
	68.5	27.6	3.9	-		69.4	22.2	1.7	6.7
	47.5	46.0	4.4	2.1		43.9	51.1	0.0	5.0
	72.6	19.3	7.9	0.3		45.6	39.1	2.6	12.8
	72.5	22.9	4.5	0.1		49.4	42.9	1.2	6.5
	30.5	52.3	12.0	5.2		37.8	59.0	1.7	1.5
	52.1	43.7	0.4	3.8		21.2	68.2	4.4	6.1
	64.2	26.4	2.5	6.9		49.8	38.7	4.8	6.7
	60.2	36.8	0.4	2.6		67.7	25.2	2.1	3.4
	53.4	36.1	4.1	6.4		67.5	26.9	2.5	3.1
	63.9	30.0	1.0	5.1		41.8	53.7	2.6	1.8
	50.3	40.2	1.6	7.9		47.3	31.0	4.8	16.8
	61.7	35.6	0.3	2.4	E U	53.9	37.2	1.9	7.0
	20.2	46.9	2.6	30.3	OECD	63.1	30.6	3.9	-

: 1999 가 .  
 : OECD(2000).

20 . 1999  
 2.10%, 2.46% 3%  
 (< 4> ). , 1999 20  
 67.60% ('97 ) 33.43% ('97 ) 40.73%

< 4>

( : %)

	('99)	('96)	('98)	('95)	('95)	('97)
	2.10	3.50	3.14	3.30	4.60	1.20
	2.46	4.00	3.89	4.00	-	-

: (2000).

2.

1999 , ,  
 13.6%, 25.7%, 60.7% ,  
 가  
 20% , EU (<  
 5> ).

< 5>

( : %)

	('99)	('98)	('98)	('93)	('96)
	13.6	15.6	13.9	21.2	22.0
	25.7	22.6	24.6	78.8	28.5
	60.7	61.8	61.4		49.5

: (2000).

1999  
 3.0%, 13.6%, 12.0%, 71.4%  
 , ,  
 , , 70 80% ,  
 , , 60 70% ,  
 가

가 (< 6> ).

< 6>

( : %)

	('99)	('99)	('98)	('98)	('98)	('98)
.	3.0	7.1	9.2	14.6	19.5	13.3
	13.6	2.9	4.7	-	14	13
	12.0	13.9	14.8	17.6	17.1	19.6
	71.4	76.1	71.2	67.8	62.0	65.8

: 가 .

1998

77.4% ( 34.2% 43.2%) 22.6% ( . . 18.2%  
 . 4.4%)  
 ('95 ) 3.4%, ('95 ) 13.7%, ('93 ) 9.9%, ('94 )  
 6.8% , ('96 ) 13.9%  
 (< 7> ).

가 ,

. 가 .

< 7>

( : %)

	('98)	('95)	('95)	('93)	('94)	('96)
	77.4	96.6	86.3	90.1	93.2	86.1
	22.6	3.4	13.7	9.9	6.8	13.9

: . 가 (1999).

< 8> .

,

가 . ,

,

22.3% , 1998 4.1% 1999

< 8 >

( : %)

	('99)	('98)	('99)	('99)	('98)	('98)	('98)
	9.1	16.1	2.4	3.5	2.7	3.8	4.3
	22.8	14.0	0.6	7.1	12.2	5.7	0.9
	5.7	10.9	2.0	19.1	3.6	5.1	0.6
	3.0	18.7	2.6	3.1	1.7	0.6	1.6
	3.3	3.2	0.8	0.7	3.5	2.2	2.3
	4.8	5.6	19.8	3.7	3.2	5.5	14.5
	2.9	0.8	1.0	0.9	2.6	1.2	2.2
	1.6	1.7	1.1	1.5	1.9	0.9	1.4
	22.3	4.1	6.2	49.5	55.0	37.5	29.7
	2.1	2.6	10.7	6.3	4.7	10.9	2.6
	22.4	16.8	52.8	4.6	8.7	24.8	39.5
	-	5.4	-	-	0.2	1.8	0.4

: (2000); 가 (1999).

3.

1999  
 < 9 >  
 가 (A)  
 (C) 48.1% 21.9% 28  
 가  
 (B) 14.9% (19.0%)  
 ,  
 (D) 2.1% 28  
 19  
 가  
 가

( : %)

가					가				
	(A)	(B)	(C)	(D)		(A)	(B)	(C)	(D)
	66.4	10.8	50.3	5.2		71.5	5.6	51.3	7.6
	75.1	2.7	42.2	6.3	가	84.4	5.4	37.8	3.8
	72.6	6.0	33.2	1.3		82.6	9.2	43.3	5.9
	90.3	5.2	51.6	2.9		66.9	6.4	56.0	1.7
	52.3	2.4	38.8	0.5		94.4	4.8	46.3	2.7
	48.1	14.9	21.9	2.1		85.6	4.3	59.8	2.6
	60.3	4.6	42.0	5.6		88.2	5.2	54.8	2.8
	97.2	2.0	70.8	1.4		83.6	9.7	39.2	7.1
	72.9	10.6	75.3	4.5		89.8	1.7	52.7	3.3
	89.1	2.0	23.0	0.3		73.8	6.5	55.4	4.7
	89.5	1.9	53.1	0.8		74.8	4.5	64.0	1.4
	86.2	5.2	55.8	1.7		88.5	6.2	79.9	2.2
	90.7	3.1	39.0	1.1		77.8	19.0	82.8	25.9
	88.6	9.7	43.9	2.8		65.1	7.1	41.1	2.8

: A B

, C D

: OECD(2000).

가

(headcount)

(full-time equivalent, FTE)

가 가

, TFE

FTE

FTE

OECD가

1999

134,568

FTE

100,210

214

가 51.7 ('98 ) 2.4 가  
 (< 10> ).

< 10>

( : , )

	('99)	('93)	('98)	('98)	('97)	('98)	('98)
	100,210 (1.0)	964,800 (9.6)	652,845 (6.5)	237,937 (2.4)	155,302 (1.6)	158,394 (1.6)	71,118 (0.7)
	21.4 (1.0)	37.4 (1.7)	51.7 (2.4)	29.0 (1.4)	26.6 (1.2)	27.0 (1.3)	32.5 (1.5)
1	100.0 (1.0)	171.9 (1.7)	204.0 (2.0)	207.3 (2.1)	200.7 (2.0)	162.6 (1.6)	-

: ( ) 1 .  
 : (2000).

OECD , 1999 FTE  
 가 102,660 , 4.8 가  
 , 가  
 ,  
 . OECD 가  
 5.8 82.8% (< 11> ).



< 11> OECD 가

( : , %)

가			가		
	84,583	5.6	가	11,731	2.9
	19,434	0.6		1,493	9.3
	964,800	7.4		7,807	5.1
	61,133	6.7		76,056	3.2
	652,845	9.6		38,055	5.0
	102,660	4.8		17,490	7.7
	8,264	4.4		58,042	3.4
	12,821	3.4		13,607	2.7
	22,918	5.3		60,269	3.7
	12,566	2.3		36,878	8.6
	17,443	6.1		21,635	5.5
	23,745	9.4		18,908	0.8
	155,302	6.0		158,394	5.5
	237,937	6.0	E U	856,793	5.0
	10,972	2.6	OECD	2,982,217	5.8

: 1999 가 .

: OECD(2000).

1997 99 9.1%,  
 9.5%, 9.7% 가 , 138,438 ,  
 129,767 , 134,568 , 12,545 , 12,317 , 13,090

. ,  
 , 1997  
 22.7% (< 12> ),  
 1993 , 1995 , 1997 20%, 22%, 23%

가 .

		37,859	49,999	45,828	4,752	138,438
		3,588	5,432	3,116	409	12,545
		(9.5)	(10.9)	(6.8)	(8.6)	(9.1)
		454,700	967,900	1,916,800	30,000	3,369,400
		106,400	252,600	395,000	9,300	763,300
		(23.4)	(26.1)	(20.6)	(31.0)	(22.7)

: 1.

2. ( )

: 가 (1998); National Science Foundation(2000).

1  
 , 1999 10 ,  
 , , , 50 60% (< 10>  
 ). , 가 , 1 가  
 가 .

4.

가 가 ,  
 (Science Citation Index, SCI) 가  
 . 1999 11,010 16  
 , 4.4%, 15.9%, 16.0%, 17.1%,  
 23.2% (< 13> ). 가  
 . ,  
 2.37 , 1 0.17 30 61  
 가

< 13>

(1999 )

( : )

	가			가	
1		252,984	16		11,010
2		69,220	17		9,826
3		68,775	18		8,973
4		64,379	19		8,967
5		47,447	20		8,914
6		33,715	21		8,406
7		29,587	22		7,453
8		24,262	23		6,980
9		22,762	24		6,718
10		21,125	25		4,847
11		21,006	26		4,714
12		18,314	27		4,553
13		16,092	28		4,349
14		14,753	29		4,312
15		13,729	30		3,969

: (2000a).

가

가  
가  
가 , 1997 18.9% 30  
40%  
( < 14> ).

< 14>

(1997 )

( : , %)

(A)	129,982	236,692	417,974	195,595	112,631	148,209
(B)	24,579	111,984	147,686	55,053	50,448	44,754
(B/A)	18.9	47.3	35.3	28.1	44.8	30.2

: 가 (1999).

. 1998

23 8,700 , 1 4,100  
 5.9% , ,  
 가 , 가 70 85%

< 15 >

( : , %)

	('98)	('98)	('97)	('98)	('97)	('97)
(A)	2,387	11,292	3,623	15,152	2,991	3,438
(B)	141	36,808	6,873	12,825	2,166	5,829
(A+B)	2,528	48,100	10,496	27,977	5,157	9,267
(B/A)	0.06	3.26	1.90	0.85	0.72	1.70

: 가 (1999).

5.

가 , GDP

가

72.5% 22.9%

25.7%, 60.7%

가

13.6%,

가

OECD 가 가

가

가

1

가

50 60%

16

30

가

61

5.9%

< >

가 ( ), < >

(2000), “1999”.

(2000a), “1999”.

National Science Foundation(2000), Science and Engineering Indicators 2000.  
 OECD(2000), “Statistical Annexes: Figures and Tables”.