

2001. 3

**한국건설산업연구원**

21 가 . , , ,  
 . ,  
가 .  
‘ ’ . CALS, B2B , Auto  
CAD, ,  
 . 가 21 . ‘ ’  
 , 19 20 .  
 . ‘  
( )’  
 . 21  
 .  
 ,  
가 . ,  
 . 가  
 .  
가 .  
(pool)  
가 .  
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‘ ’  
‘ ’  
 .



I.	1
1.	1
2.	3
3.	7
4.	8
.	9
1.	9
2.	10
3.	12
4.	13
.	23
1.	24
2.	28
3.	32
4.	35

. ‘	’	41
1.		41
2.		42
3.		43
4.		50
5.		62
6.		65
V .		69
1.		69
2.		74
3.		80
.		85
		88
		91
<b>Abstract</b>		97

■

< -1>		6
< -1>		13
< -2>		14
< -3>		18
< -4>	(2000 )	20
< -1>	・	26
< -2>	・	28
< -3>	・	29
< -4>		31
< -5>	・	33
< -6>		34
< -7>		35
< -8>		36
< -1>		41
< -2>	(2000 )	42
< -3>	(2000 )	44
< -4>	(2000 )	45
< -5>	(2000 )	46
< -6>	(2000 )	47
< -7>	(2000 )	48
< -8>	(2000 )	49
< -9>	(2000 )	49
< -10>	(2000 )	50

< -11>	.....	53
< -12>	.....	55
< -13>	.....	56
< -14>	.....	57
< -15>	.....	58
< -16>	.....	59
< -17>	.....	59
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< -20>	.....	61
< -21>	.....	63
< -22>	.....	64
< -23>	.....	65
< -24>	.....	66
< -25>	.....	67
< -1>	.....	72
< -2>	.....	75
< -3>	.....	76
< -4>	.....	76
< -1>	.....	9
< -2>	.....	15
< -1>	.....	25
< -2>	.....	37
< -3>	.....	38
< -1>	(2000 ) .....	44
< -2>	(2000 ) .....	44
< -3> A	(2000 ) .....	46
< -4>	(2000 ) .....	47
< -5>	(2000 ) .....	48

< -6>	.....	51
< -7>	.....	51
< -8>	.....	52
< -9>	2000 .....	54
< -10>	.....	55
< -11>	.....	56
< -12>	.....	49
< -13>	.....	58
< -14>	.....	60
< -15>	가 .....	62
< -16>	.....	65
< -17>	.....	66
< -1>	.....	70
< -2>	.....	85



I.

— , ‘ 가  
.

— (mismatch)가  
.

— .

— 2000 9

(Image Task Force)  
가 .

— .

— , 가

가

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‘ ’

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가

1

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■

■ ,

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- 1998 2000

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■

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6

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1999

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가

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2000

■

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— 가 가 .  
·  
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— 2000 가 .

— ‘  
, 가 ,  
·  
,  
가 .

— 2000 4.4 .  
· , , ,  
·

— ‘  
, 가 , 45.1% 5 ,  
81.7% 10 .

— 60% 가 ‘ , ‘  
, ‘ ,  
가 .

— ‘

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가

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가

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‘ , ‘

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‘ (vision) ’

가

가

가

‘ ,

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가

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가

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# I.

## 1.

가 .  
가 .  
?

(mismatch)가  
4

5

2000 10  
46.5 가

가 . ,  
,

가 .  
가

CALS B2B

, CM

가

가

가

Liska and Piper(1999)

250 ‘ ’ 248

(Kranz, 1995)

(Gasperow, 1991)

가

The Business Roundtable ‘ Confronting the Skilled Construction Work Force Shortage ’(1997. 10. 16)

60%

75% 5

25%

. Tucker, Haas, Glover, et. al.(1999)

(the lack of clear career paths)

2000 9

160

(ENR, Industry Launches Image Task Force, 2000. 9. 18).

가?

가

2.



가

## 2.

(1) ‘

가

1980

(  
가

1988

가

10

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鸺, 1992.

(2) ‘

『高橋』

가 가

, , , SOC

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가

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(1992)

가

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가

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,

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(3) ‘

『高橋』

가

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『高橋』 , 1995.  
『高橋』 , 1998.

(4) ‘

鸛鴳鸛鸛

가

, 4

(5)

(1995, 1999), (1990, 1997, 2000), (1999),  
(1999)

가

「

」

(1998)

가

가

( 100 , 500 ).

가 (1997)

—

420

— 가

---

鸛鴳鸛鸛 . . . , 1998.

< -1>

	<div><div></div><div></div><div></div><div></div></div>	<div><div></div><div>( 16 , 18 )</div><div></div><div>( 30 )</div></div>
	<div><div></div><div></div><div>가</div></div>	<div><div></div><div>( , 1997)</div></div>
	<div><div></div><div></div><div>4</div></div>	<div><div></div><div>( , 1998)</div></div>
	<div><div></div><div></div><div></div></div>	<div><div></div><div>( , 1998)</div><div></div><div>( , 2000)</div></div>

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가 ‘ , ‘ ,

가

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,

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가

가

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가

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가

가

가 .

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가

가

3.

‘ ’ . 「 」  
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 ,  
 , 「 가 」 .  
 ( ) ( ) .

, , ,  
 ,  
 ,  
 , .

(pool)

가

. ‘ ’ . 가

2000 12

4.

가

2000 12

가

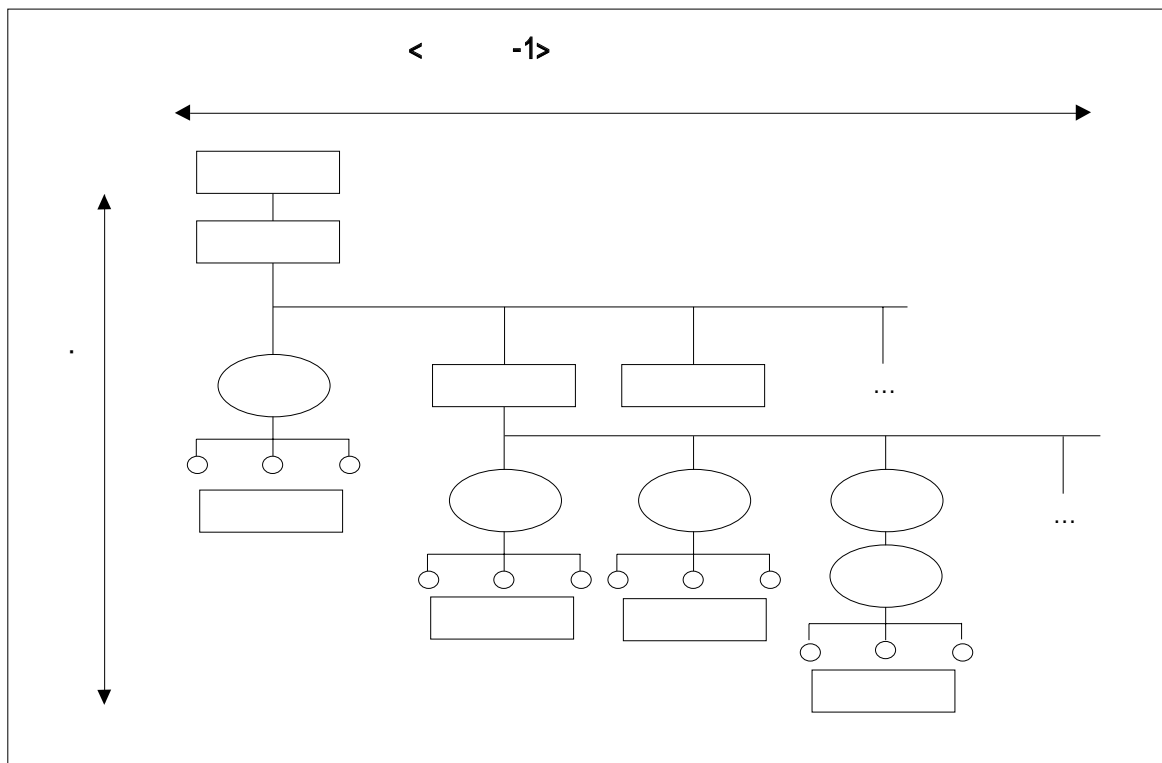
8.

## II.

1.

가

. < -1>



.  
 . (先) (後) ,  
 .  
 .  
 , ,  
 .  
 가  
 가  
 .  
 < -1> , 1  
 , 1 가  
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 .  
 가 가 ,  
 .

## 2.

가  
 .  
 가  
 가 .  
 . ,  
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· ,

가

가 .

(1)

·

가  
가

(注文生産方式)

가

(2)

가 .

가

90%가

가

1)

70%

가 가

3.

1)

가

가

가

(情報非對稱性)

가

120 150

가

가

가

가

1)

가

4.

가

(1)

가 44.2%,  
82%

가 19.3%,

가 18.8%

< -1>

( : %, )

								<sup>1)</sup>
	100.0(917)	2.4	3.7	44.2	19.3	18.8	0.9	10.8
	100.0(83)	2.4	1.2	30.1	32.5	24.1	0.0	9.6
	100.0(612)	1.0	2.1	47.2	19.4	18.1	1.0	11.0
	100.0(111)	2.7	5.4	54.1	15.3	14.4	0.9	7.2
	100.0(105)	10.5	13.3	27.6	12.4	23.8	1.0	11.5
	100.0(6)	0.0	0.0	33.3	16.7	0.0	0.0	50.0

: ( )

1)

:

(1.4),  
(1996a).

(4.7),

(0.4),

(4.3) .

< -2>

( : %, )

						1)
	100.0(200)	63.5	3.0	21.0	4.0	8.5

: ( )

1) (0.5%), (6.5%), (1.5%).  
: (1996b)

.

84.7%

63.8%

3.1%

23.8%

63.5%

21.0%

6.1%

2)

(2)

가

가

가

가

2)

가

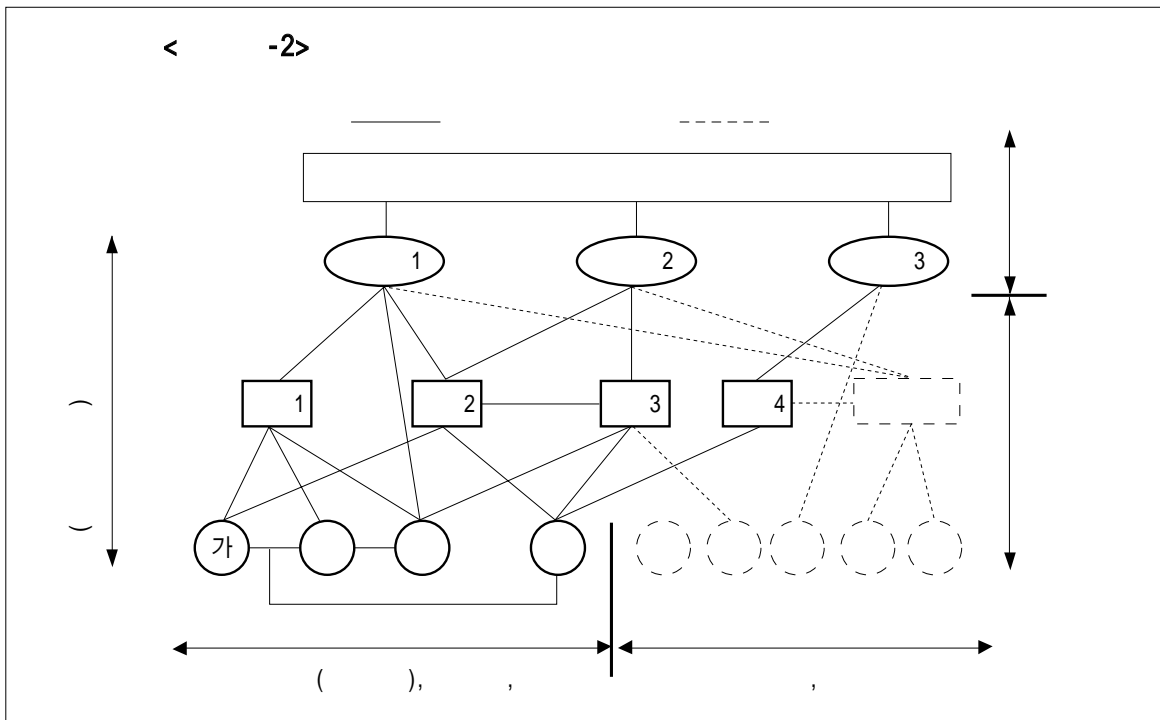
가 (bias)

( Assaad, 1993, 929)

가 (人的紐帶, personal ties)

(垂直的 人的紐帶) (patron-client ties)

(水平的 人的紐帶) (work team)<sup>3)</sup> (fellowship, fellow ties)



3)

12 , 가 7 8 , 6 7 , 11  
 가 5 6 , 가 1 8 20 ,  
 (1999)

(information)가 (wage)  
 (allocation) . , 가 .  
 2  
 (core group) (periphery group) 가  
 ( , 2000).

가  
 가  
 가  
 가

가  
 가  
 가

가  
 가  
 가

가  
 가  
 가

가  
 가  
 가

가  
 가  
 가

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4) 가  
 가

(3)

2000

122	20	16	158	281
2,983	3,422			

2000 12

10.3%

가

가

< -3>

가

가

가

가

(mismatch) 가

< -3>

[illegible]

가 -

(4)



(5)

2000

38

1 5,000 2

가 . 2000

3가

4가

가 가

3가

IMF

'( )

가 1997 10

가 1998

38 .

< -4>

(2000 )

( : %, )

		A	B	
	100.0(631)	100.0(238)	100.0(201)	100.0(192)
	47.4	66.0	41.3	30.7
	24.9	20.2	36.3	18.8
	10.0	3.4	4.0	24.5
	1.3	0.4	1.0	2.6
	14.9	9.2	15.4	21.4
	0.3	0.4	0.5	-
	1.3	0.4	1.5	2.1

: A , B , (2000).

2000 10 19 3 3,202 D/B  
가

2000 12  
가 가

가

가

가

가 가

가

가

가

가

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.

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.

.

가

.





1.

(1)

(signal)

가

SOC, ,  
가

가

(allocation)

가

(mismatch) 가

가  
가

가

가

가

가

(2)

(derived demand)

가 1970 99

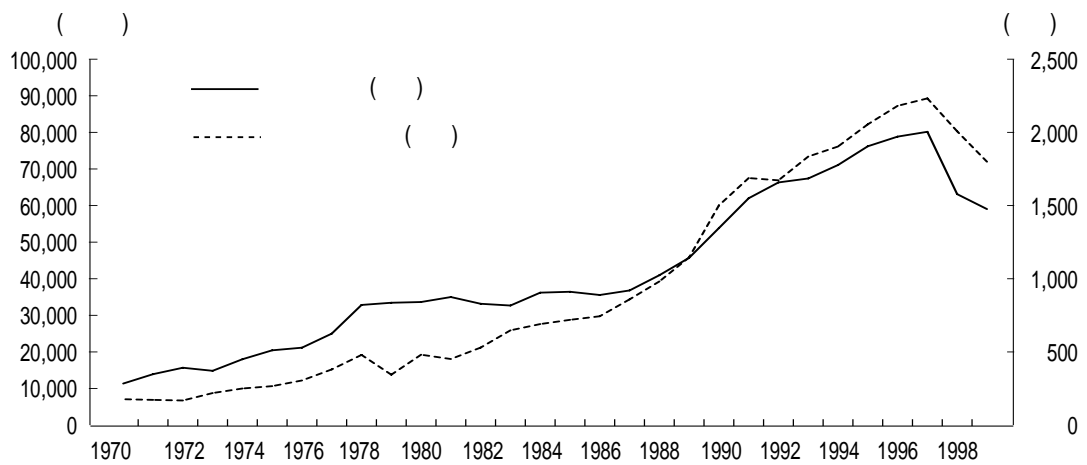
95%

$$= 0.432 + 0.974 * +$$

$$(1.595) (23.476)$$

Adj R<sup>2</sup> = 0.947, F = 551.102, Sig = 0.000, ( ) t

< -1>



: (http://www.moct.go.kr) ‘ ’.

,

.

,

가

< -1> .

( : %)

	1985			1988			1990			1993		
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	24.4	18.8	34.2	26.3	19.2	36.9	31.2	23.8	42.1	29.5	22.8	43.0
	8.9	9.5	7.7	14.1	17.6	8.8	13.3	16.8	8.2	13.7	16.8	7.4
	6.2	7.6	3.8	6.1	9.6	0.8	6.0	9.5	0.8	6.9	9.9	0.9
	3.6	5.0	1.3	5.1	8.1	0.6	5.0	8.0	0.6	6.1	8.7	0.6
	7.2	8.3	5.3	5.8	6.3	4.9	5.5	6.1	4.7	5.2	5.7	4.3
	13.0	13.9	11.4	5.5	4.4	7.2	5.3	4.2	6.9	4.3	3.4	6.2
	2.7	3.1	2.1	3.5	4.7	1.8	3.5	4.6	1.8	4.6	5.9	1.8
	6.5	9.1	1.7	2.6	3.6	1.2	2.5	3.4	1.2	2.1	2.8	0.8
	1.5	1.7	1.0	2.3	3.0	1.2	2.3	3.0	1.2	2.6	3.1	1.6
	2.0	2.0	2.2	1.6	1.5	1.7	1.5	1.5	1.6	1.4	1.4	1.5
	1.8	2.6	0.4	1.4	2.2	0.1	1.5	2.4	0.1	1.7	2.4	0.3
	2.3	3.1	1.1	1.4	1.8	0.8	1.5	1.9	0.8	1.7	2.3	0.5

: ' ( ).

< -1> ' , .  
가  
. 1985 1993 가

가

가

가



(3)

(signal)

1993

가

가

2000

11

가

가 3 5,000

가

가

가가

가

2000 12

## 2.

'(1985 93 )

(1)

-2>

가  
가  
(break-down)

< -2> ( : )

			...	...	...	
	a <sub>11</sub>	a <sub>12</sub>	...	...	a <sub>1</sub>	a <sub>1</sub>
	a <sub>21</sub>	a <sub>22</sub>	...	...	...	a <sub>2</sub>
...	...	...	...	...	...	...
...	...	...	...	...	...	...
...	a <sub>11</sub>	a <sub>12</sub>	...	...	a	a
	a <sub>1</sub>	a <sub>12</sub>	...	...	a	a

(2)

:

가

가

1986

1994

가

< -3>

가 (%)

100%

< -3>

( : %)

	b <sub>1</sub>	c <sub>1</sub>	d <sub>1</sub>	e <sub>1</sub>	f <sub>1</sub>	g <sub>1</sub>	h <sub>1</sub>	k <sub>1</sub>	l <sub>1</sub>	m <sub>1</sub>	n <sub>1</sub>	o <sub>1</sub>
	b <sub>2</sub>	c <sub>2</sub>	d <sub>2</sub>	e <sub>2</sub>	f <sub>2</sub>	g <sub>2</sub>	h <sub>2</sub>	k <sub>2</sub>	l <sub>2</sub>	m <sub>2</sub>	n <sub>2</sub>	o <sub>2</sub>
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	b <sub>i</sub>	c <sub>i</sub>	d <sub>i</sub>	e <sub>i</sub>	f <sub>i</sub>	g <sub>i</sub>	h <sub>i</sub>	k <sub>i</sub>	l <sub>i</sub>	m <sub>i</sub>	n <sub>i</sub>	o <sub>i</sub>
	100.0 = b <sub>i</sub>	100.0 = c <sub>i</sub>	100.0 = d <sub>i</sub>	100.0 = e <sub>i</sub>	100.0 = f <sub>i</sub>	100.0 = g <sub>i</sub>	100.0 = h <sub>i</sub>	100.0 = k <sub>i</sub>	100.0 = l <sub>i</sub>	100.0 = m <sub>i</sub>	100.0 = n <sub>i</sub>	100.0 = o <sub>i</sub>

$$RLCi = \frac{LiWi}{TLC} = \frac{LiWi}{TL \cdot W}$$

$RLCi$  :  $i$

$Li$  :  $i$

$Wi$  :  $i$

$TLC$  : ( )

$TL$  :

$BAR W$  :

‘ , ’ .

$$\begin{aligned} RLNi &= \frac{Li}{TL} = \frac{Li \cdot \overline{W}}{TL \cdot \overline{W}} = Li \cdot W \times \frac{1}{TLC} \\ &= Li \cdot W \times \frac{1}{\frac{Li \cdot W}{RLCi}} = RLCi \times \frac{\overline{W}}{Wi} \end{aligned}$$

$$RLNi = RLCi \times \frac{\overline{W}}{Wi}$$

$RLNi$  :  $i$

,  $i$  ‘ , ‘ , ‘ /  $i$  ,

‘ , ,

.

가 ,  
가

.

1994

가

가

1994

< -4>

( )<sup>1)</sup>

( : , , %)

	1985	1988	1990	1993	1995	1999	1999	<sup>3)</sup>
	(1995 가 )							
	29 54:46	39 63:47	60 69:31	73 63:37	82 62:38	89 55:45	72 43:57	6.7 -

<sup>2)</sup>	755	999	1,086	1,374	1,511	1,565	1,149	3.0
	184	262	339	405	478	517	408	5.9
	67	141	145	188	196	193	130	4.8
	47	61	65	95	93	87	52	0.7
	27	51	54	83	83	77	47	4.0
	54	57	60	71	79	80	57	0.4
	98	55	57	59	70	76	59	-3.6
	21	35	38	63	67	65	42	5.1
	49	26	27	29	33	32	21	-5.9
	11	23	25	36	37	36	25	6.0
	15	16	16	19	20	21	15	0.0
	14	14	16	23	22	20	12	-1.1
	18	14	16	23	25	24	15	-1.3

<sup>2)</sup>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-
	24.4	26.3	31.2	29.5	31.5	33.0	35.6	2.7
	8.9	14.1	13.3	13.7	13.0	12.4	11.3	1.8
	6.2	6.1	6.0	6.9	6.2	5.5	4.5	-2.3
	3.6	5.1	5.0	6.1	5.5	4.9	4.0	1.0
	7.2	5.8	5.5	5.2	5.2	5.1	5.0	-2.6
	13.0	5.5	5.3	4.3	4.6	4.8	5.2	-6.4
	2.7	3.5	3.5	4.6	4.4	4.2	3.7	2.0
	6.5	2.6	2.5	2.1	2.2	2.1	1.8	-8.7
	1.5	2.3	2.3	2.6	2.4	2.3	2.1	2.9
	2.0	1.6	1.5	1.4	1.4	1.3	1.3	-3.0
	1.8	1.4	1.5	1.7	1.4	1.3	1.1	-4.0
	2.3	1.4	1.5	1.7	1.6	1.5	1.3	-4.2

: 1) 75~80% . 1993 가

2) , ,

3) (%) = (1999 /1985 )<sup>1/14</sup> × 100-100.



(qualitative)

(1)

가

$$= \pm$$

< -5>

가

< -5> ( )

				...	(j = 1...n)
( + )		<sup>4</sup> <sub>1</sub> b <sub>11</sub>	<sup>4</sup> <sub>1</sub> b <sub>12</sub>	...	<sup>4</sup> <sub>1</sub> b
		b <sub>11</sub>	b <sub>12</sub>	...	b <sub>1j</sub>
		b <sub>21</sub>	b <sub>22</sub>	...	b <sub>2j</sub>
		b <sub>31</sub> + b <sub>41</sub>	b <sub>32</sub> + b <sub>42</sub>	...	b <sub>3</sub> + b <sub>4</sub>
		b <sub>31</sub>	b <sub>32</sub>	...	b <sub>3</sub>
		b <sub>41</sub>	b <sub>42</sub>	...	b <sub>4</sub>
( - )		<sup>7</sup> <sub>5</sub> b <sub>11</sub>	<sup>7</sup> <sub>5</sub> b <sub>12</sub>	...	<sup>4</sup> <sub>1</sub> b
		b <sub>51</sub>	b <sub>52</sub>	...	b <sub>5</sub>
		b <sub>61</sub>	b <sub>62</sub>	...	b <sub>6</sub>
		b <sub>71</sub>	b <sub>72</sub>	...	b <sub>7</sub>
		b <sub>1,t-1</sub>	b <sub>2,t-1</sub>	...	b <sub>,t-1</sub>
		b <sub>1,t-1</sub> + <sup>4</sup> <sub>1</sub> b <sub>11</sub> - <sup>7</sup> <sub>5</sub> b <sub>11</sub>	b <sub>2,t-1</sub> + <sup>4</sup> <sub>1</sub> b <sub>12</sub> - <sup>7</sup> <sub>5</sub> b <sub>12</sub>	...	b <sub>,t-1</sub> + <sup>4</sup> <sub>1</sub> b - <sup>7</sup> <sub>5</sub> b

(2)

(1999)

가 42.1% 가 ,  
가 35.7%

6.5%

가

40.9%가,

31.5%가

가

< -6>

( : , %)

	(679)	(457)	(105)
	11.0	13.1	8.6
	24.7	27.8	22.9
	42.1	42.9	46.7
	4.6	2.8	2.9
( )	1.9	0.9	1.0
	0.4	-	1.0
	14.4	11.6	17.1

: . . . , . . .  
: (1999).

27.1

2

29.0

2.5

31.5

. ,  
4.4

가

4

, 5

가



< -7>

( : , %)

(694)	44.2	27.1	29.0	31.5	4.4
(120)	46.8	27.0	29.8	32.4	5.4
(94)	47.1	28.0	30.2	32.4	4.4
(69)	47.0	27.7	30.1	32.0	4.3
(42)	48.3	32.3	33.5	37.6	5.3
(6)	46.5	27.0	32.1	33.7	6.7
(4)	51.0	25.8	28.6	31.5	5.7
(6)	46.5	23.5	26.4	29.4	5.9
(9)	37.1	22.0	24.5	26.3	4.3
(11)	46.2	30.6	34.4	36.3	5.7
(94)	41.0	26.5	28.2	29.7	3.2
(32)	39.1	25.6	26.3	28.5	3.9
(32)	41.6	27.5	30.5	30.7	3.2
(61)	40.8	22.9	24.9	27.4	4.5
(17)	40.2	26.6	26.9	30.3	3.7

: (1999).

20.0%( 10.9%), 가 10.5 ( 8.9 ),  
 27.7 ( 32.8 ), 81.3%( 63.9%)  
 가 .

#### 4.

##### (1)

1985 2000 , ,  
 . 가  
 11.6% . 1997 6 5,000  
 1998 5 5,000 1999 5 4,000 가  
 2000 9 5 7,000 . 가 가 1988  
 1993

62 가 .

12% , , 1985 2000  
1999 9 2000 9

< -8> ( 8 )

( : )

	1985	1988	1990	1993	1995. 9	1997. 9	1999. 9	2000. 9	단
( 가 )									
	11	17	30	46	57	65	54	57	11.6
	7	10	17	24	32	38	34	38	11.7
	12	18	33	54	67	75	61	66	11.9
	13	19	34	52	65	71	54	58	10.6
	12	18	32	50	61	68	58	58	11.1
	12	18	32	50	66	78	64	69	12.4
	11	17	30	48	60	71	62	63	12.3
	11	16	28	40	49	59	48	51	10.8
	12	18	33	55	64	72	60	63	11.7
	12	18	31	42	54	58	49	51	10.1
	12	19	34	56	68	79	66	69	12.4
	12	19	31	49	64	68	57	58	11.1
	12	18	30	44	55	63	53	58	11.1

2)

	-	54.5	76.5	53.3	23.9	14.0	-16.9	5.6	-
	-	42.5	70.0	41.2	33.3	18.8	-10.5	8.8	-
	-	50.0	83.3	63.6	24.1	11.9	-18.7	6.6	-
	-	46.2	78.9	52.9	25.0	9.2	-23.9	9.3	-
	-	50.0	77.8	56.3	22.0	11.5	-14.7	0.0	-
	-	50.0	77.8	56.3	32.0	18.2	-17.9	7.8	-
	-	54.5	76.5	60.0	25.0	18.3	-12.7	1.6	-
	-	45.5	75.0	42.9	22.5	20.4	-18.6	6.3	-
	-	50.0	83.3	66.7	16.4	12.5	-16.7	5.0	-
	-	50.0	72.2	35.5	28.6	7.4	-15.5	4.1	-
	-	58.3	78.9	64.7	21.4	16.2	-16.5	4.5	-
	-	58.3	63.2	58.1	30.6	6.3	-16.2	1.8	-
	-	50.0	66.7	46.7	25.0	14.5	-15.9	9.4	-

: 1) (%) = (2000 / 1985 )<sup>1/15</sup> × 100 - 100

2)

:











大馬) 49% . , , .

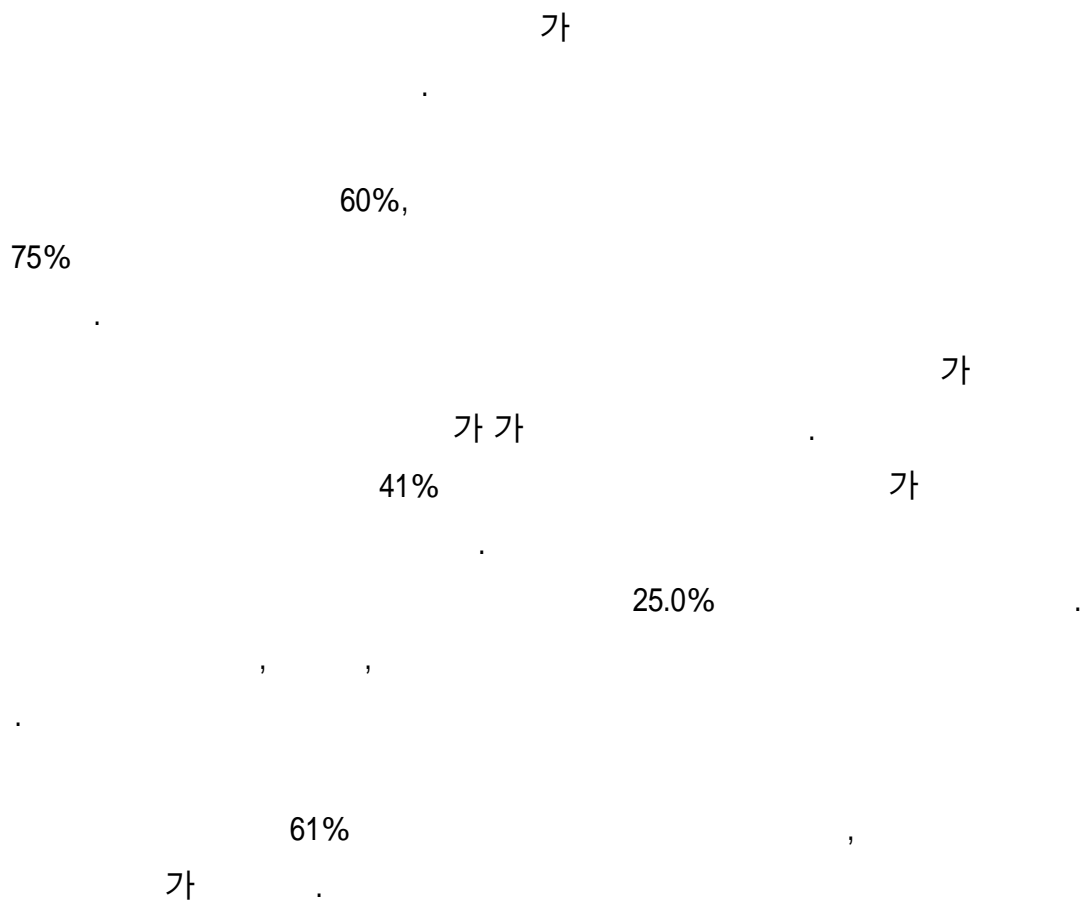
2. 가 . ‘ 10 , 48% 가 59.5% 49.7%, 가 34.8% . 가 58.9% 가 35.0% . RC steel form, , , , PFP ( ), STC , , , ,

< -2> (2000 ) ( : %, )

	(278)	48.6	59.1	75.2	40.7	61.7
	(37)	59.5	63.6	72.7	45.5	56.8
	(195)	49.7	56.3	75.0	42.8	63.0
	(46)	34.8	68.4	78.9	25.0	60.9
1)	(262)	48.1	60.2	74.2	40.8	60.9
	(56)	58.9	62.5	78.1	50.1	72.1
	(29)	41.4	66.7	66.7	15.4	81.5
	(24)	37.5	100.0	90.0	20.0	66.7
	(20)	35.0	57.1	42.9	0.0	50.0
	(20)	50.0	50.0	90.0	60.0	55.0

: 1) 가 20 .





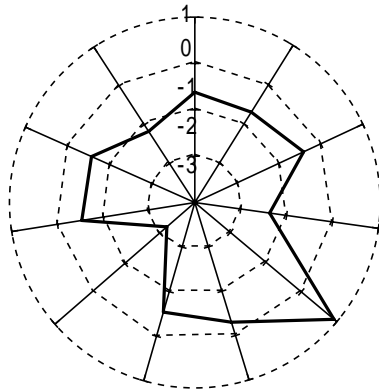
3.

(1)

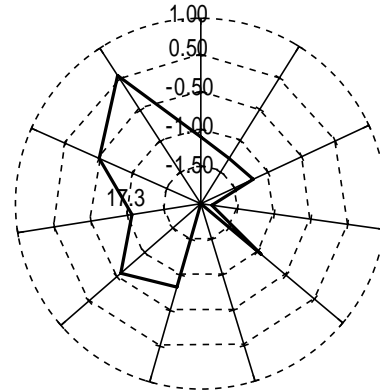
. 2000

-0.62 2000

< -1> (2000 )



< -2> (2000 )



: 1. 가( ) , 2. 가( )

A B 가 . B A 가

, 가 , 가

< -3> (2000 )

		A	B	
(275 )	-0.62	-0.61	-0.68	-0.47
(23 )	-0.70	-0.65	-0.87	-0.59
(32 )	-0.41	-0.31	-0.26	-0.21
(29 )	-1.37	-1.24	-1.27	-1.44
(7 )	+0.92	+0.29	+1.00	+1.25
(33 )	-0.30	-0.58	-0.31	-0.06
(81 )	-0.54	-0.51	-0.73	-0.39
(5 )	-2.20	-2.00	-2.00	-2.60
(38 )	-0.53	-0.61	-0.66	-0.26
(22 )	-0.56	-0.63	-0.55	-0.52
(5 )	-1.17	-0.40	-1.00	-1.50

: 1. 가( ) , 2. 가( )

< -4> (2000 )

		A	B	
(260 )	-0.60	-0.58	-0.67	-0.43
(55 )	-0.78	-0.84	-0.78	-0.50
(29 )	-0.72	-0.66	-0.81	-0.59
(24 )	-1.35	-1.25	-1.58	-1.21
(20 )	-0.44	-0.30	-0.50	-0.25
(3 )	-1.50	-1.00	-1.50	-1.50
(7 )	-0.33	0.00	-0.83	-0.60
(6 )	-0.07	-0.17	+0.01	0.00
(4 )	-0.56	0.00	-0.67	-0.33
(2 )	0.00	0.00	0.00	0.00
(4 )	+0.56	0.00	+0.67	+0.67
(20 )	-0.69	-0.60	-0.50	-0.57
(13 )	-0.33	-0.30	-0.23	-0.46
(6 )	+0.27	0.00	0.00	+0.40
(5 )	-0.60	-0.80	-0.60	-0.40
(7 )	-0.61	-0.71	-0.86	-0.33
( 5 )	-0.40	-0.60	-0.60	0.00
(11 )	-0.14	-0.27	0.00	-0.25

가  
1. 가( ) , 2. 가( ) .

가 , , , ,  
가 .

RC

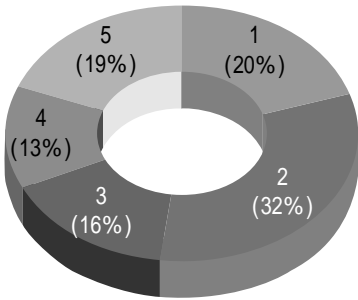
-0.66

가 -0.63 -0.46

가 가 , ,

(2)

가 29.3% 가 , 가 18.9% 가 48.2% A 51.7%, B 47.9%, 44.3% 가 27.4% 가 < -3> A (2000



: 1. 2. 3. 4. 5. (+) (-)

< -5> (2000 ) ( : %, )

		A	B	
	100.0	100.0(277)	100.0(238)	100.0(230)
	18.9	19.9	16.4	20.4
	29.3	31.8	31.5	23.9
	16.5	15.9	17.6	16.1
	12.9	13.0	13.4	12.2
	22.4	19.5	21.0	27.4

Country	Difference (2019 - 2020)
Algeria	-0.8
Angola	0.9
Argentina	-0.5
Australia	0.5
Austria	-1.3
Bahamas	-0.6
Bahrain	-0.8
Barbados	0.4
Belgium	-0.2
Belize	-0.4
Bermuda	0.0

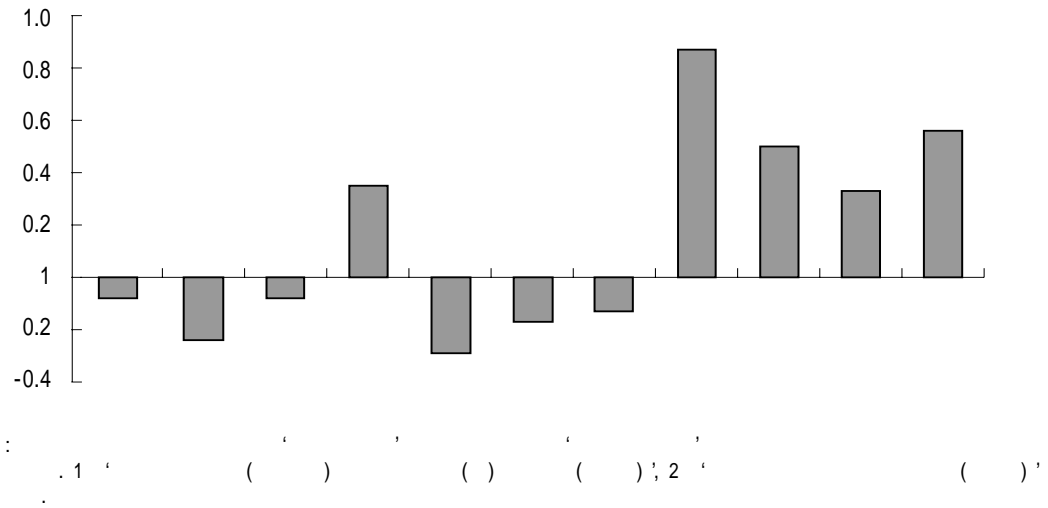
< -6> (2000 )

$$; 1^{\epsilon} \quad (\quad) \quad (\quad) \quad (\quad); 2^{\epsilon} \quad (\quad),$$

7

A

< -5> (2000 )



< -7> (2000 )

		A	B	
(262 )	-0.08	-0.20	-0.11	-0.01
(56 )	-0.24	-0.36	-0.29	-0.11
(29 )	-0.08	+ 0.07	-0.07	-0.25
(24 )	+ 0.35	+ 0.29	+ 0.54	+ 0.21
(20 )	-0.29	-0.05	-0.50	+ 0.01
(3 )	-0.17	-0.67	0.00	-0.50
(7 )	-0.13	-0.57	-0.50	-0.20
(6 )	+ 0.87	+ 0.67	+ 1.00	+ 1.00
(4 )	+ 0.50	+ 0.80	+ 0.50	+ 0.50
(2 )	+ 0.33	0.00	-1.00	+ 2.00
(4 )	+ 0.56	-0.25	+ 0.67	+ 0.67
(20 )	-0.29	-0.35	-0.06	-0.43
(13 )	-0.53	-0.46	-0.54	-0.67
(6 )	+ 0.07	-1.00	+ 0.60	+ 0.16
(5 )	-0.53	-0.40	-0.20	-1.00
(7 )	+ 0.83	+ 0.29	+ 0.29	+ 1.33
(5 )	-0.53	-0.60	-1.00	0.00
(11 )	-1.19	-0.91	-1.00	-1.50

: 1. 가( ) , 2. 가( )

가

, , ,

< -8> (2000 )

		A	B	
(277 )	-0.06	-0.19	-0.08	+ 0.02
(37 )	-0.39	-0.51	-0.56	-0.06
(194 )	+ 0.02	-0.08	+ 0.02	+ 0.04
(46 )	-0.13	-0.41	-0.16	-0.01

: 1 ( ) ( ) ( ) ; 2 ( )

A

(3)

가

가

< -9> (2000 )

		A	B	
(276 )	-0.11	-0.04	-0.09	-0.18
(23 )	-0.44	-0.20	-0.67	-0.46
(31 )	-0.09	-0.02	+ 0.13	-0.18
(29 )	-0.46	-0.43	-0.50	-0.46
(7 )	+ 0.58	-0.07	+ 0.75	0.00
(34 )	-0.17	+ 0.01	-0.19	-0.25
(82 )	+ 0.09	+ 0.06	+ 0.10	+ 0.04
(5 )	+ 0.17	+ 0.30	+ 0.30	-0.10
(38 )	-0.10	0.00	-0.01	-0.27
(22 )	+ 0.04	+ 0.09	0.00	+ 0.07
(5 )	-0.67	-0.50	-0.17	-1.00

: 0.5 ( ), 1.5 ( )

< -10> (2000 )

		A	B	
(261 )	-0.09	-0.01	-0.07	-0.17
(56 )	+0.14	+0.16	+0.17	+0.01
(29 )	-0.28	-0.40	-0.28	-0.20
(24 )	-0.11	-0.13	-0.04	-0.17
(19 )	-0.55	-0.45	-0.57	-0.57
(3 )	-0.50	+1.67	-0.50	-0.50
(7 )	-0.17	+0.07	-0.33	-0.70
(6 )	-0.03	-0.17	-0.17	-0.10
(5 )	-0.17	+0.10	0.00	-0.25
(2 )	-0.17	0.50	-0.50	-0.50
(4 )	-0.83	-0.25	-0.83	-0.83
(20 )	-0.21	0.00	-0.38	-0.29
(13 )	+0.22	+0.19	+0.19	+0.27
(6 )	-0.11	+0.17	-0.67	+0.17
(5 )	-0.30	-0.30	-0.50	-0.10
(7 )	+0.17	+0.21	+0.21	+0.17
(5 )	+0.50	+1.10	+1.10	-0.70
(11 )	+0.26	+0.32	+0.21	+0.26

: 0.5 ( ), 1.5 ( ) .

.

,

, A ,

,

.

4.

,

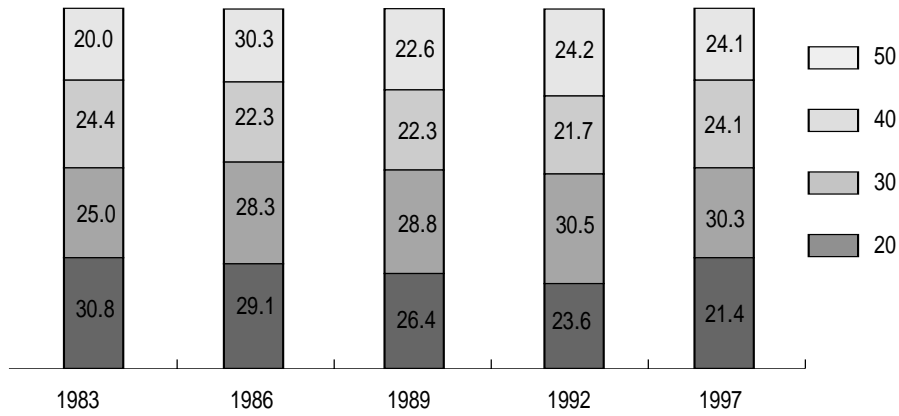
, 가 ,

,



< -6>

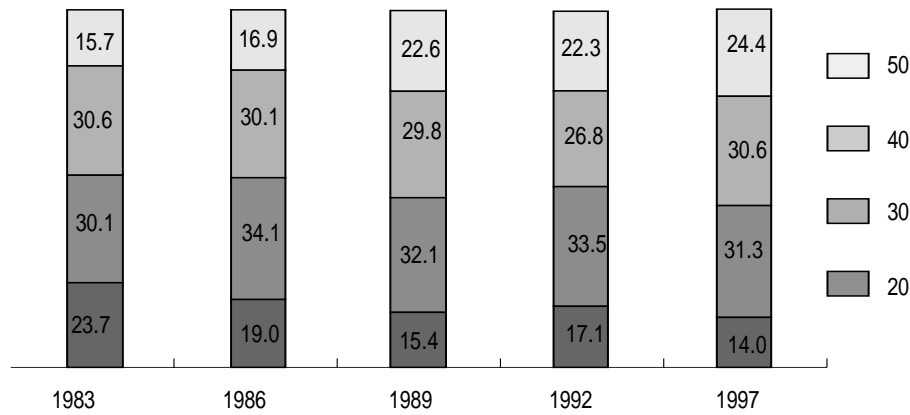
( : %)



< -7>

1)

( : %)



: 1) 1983 , 1986 , 1989 , 1992 1997

< -6>

가

가 20 가 1983 30.8%  
 1997 21.4% 9.4%  
 30 5.3% 가 50 4.1% 가

가 . < -7> 가

. , 1983 1997 20 9.7%

50 가 8.7% 가

. 1997 20

7.1% 40 6.5% .

. ‘ 가

’ ‘ (最適年齡) ’

. ‘ 2000

(2000 ) ’ ‘ 1997 (1997

) ’ .

(1)

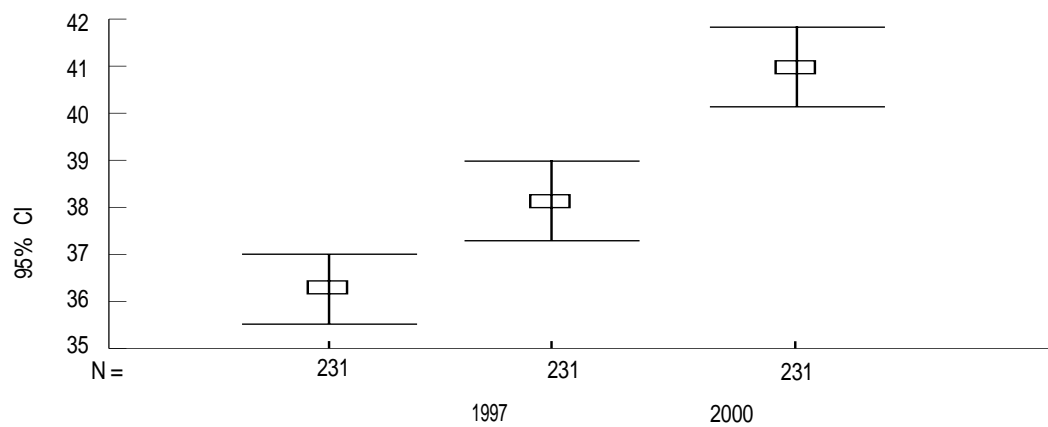
40.8

. A 43.8 , B 41.2 , 37.3

. (1996a, 1999) 41.1 43.4

46.1 2000 11

< -8>



< -11>

( : )

	( )	2000		1997		가
		( )	( - )	( )	( - )	
	36.4	40.8	4.4	38.1	1.7	2.7
A	39.8	43.8	4.0	41.3	1.5	2.5
B	36.8	41.2	4.4	38.4	1.6	2.8
	32.6	37.3	4.7	34.3	1.7	3.0

: ‘ ’ 가 .

46.5

. , ,

, , , ,

가

( )

가

5) . ,

.

,

.

36.4

.

A 39.8 ,

B 36.8 ,

32.6 .

(1999)

31.5 ,

27.1

.

A

8 ,

B

5 ,

5 가 가

. <

-8> SPSS Error bar 95%

.

‘ ’ 2000

4.4

.

A 4.0 ,

B 4.4 ,

4.7

가

.

가‘

B

A ’

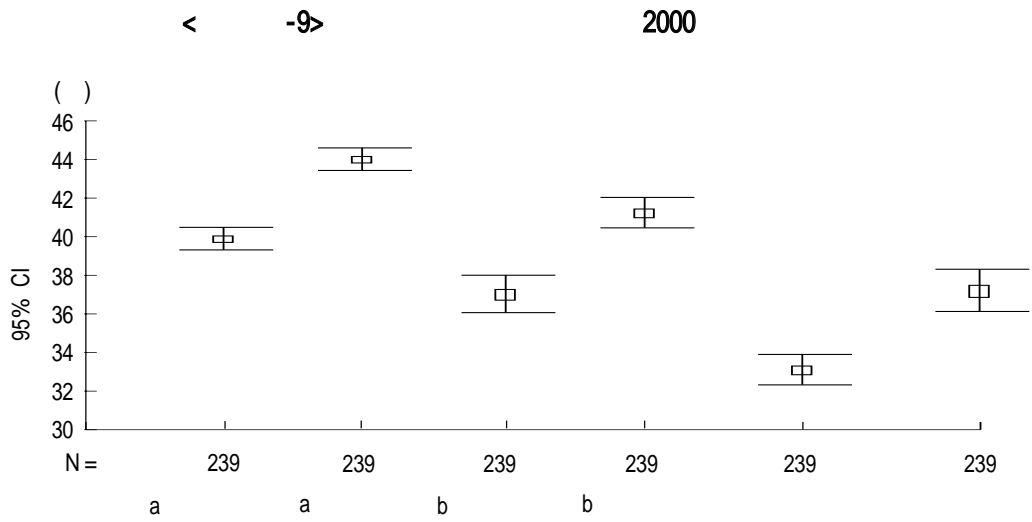
5) (1999)  
39.5 , 43.7

46.4 , 45.5 , 44.4 , 43.4

.

‘

’



가

1997 1.8 3

2.7 가

가

< -9> 2000

가

가

가

, 2000 12 가 (9.7

), (6.4 ), (5.5 ), (5.0 )

(41.6 ), (41.3 ) (44.9 ), (41.9 ),

(37.2 ), (38.9

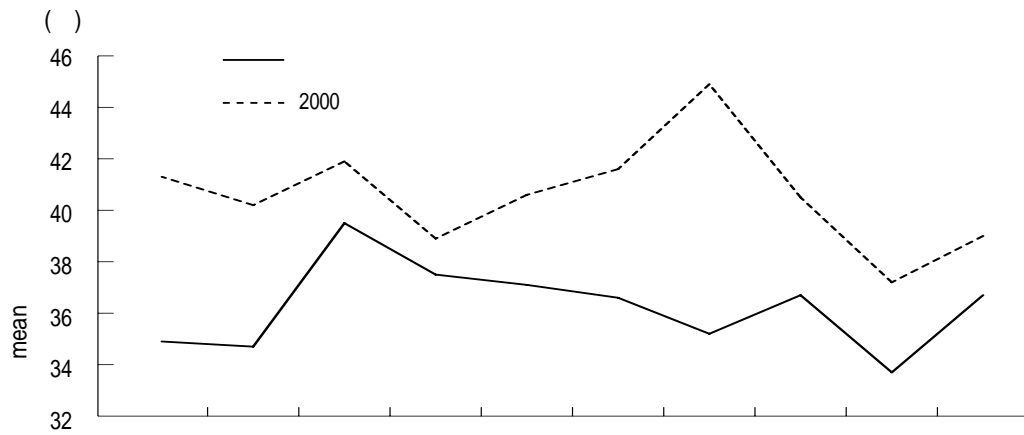
)

, 1997 가 2000

가 . 1997 2000 가

2000 12 가 (13.4 ),

< -10>



16

< -12>

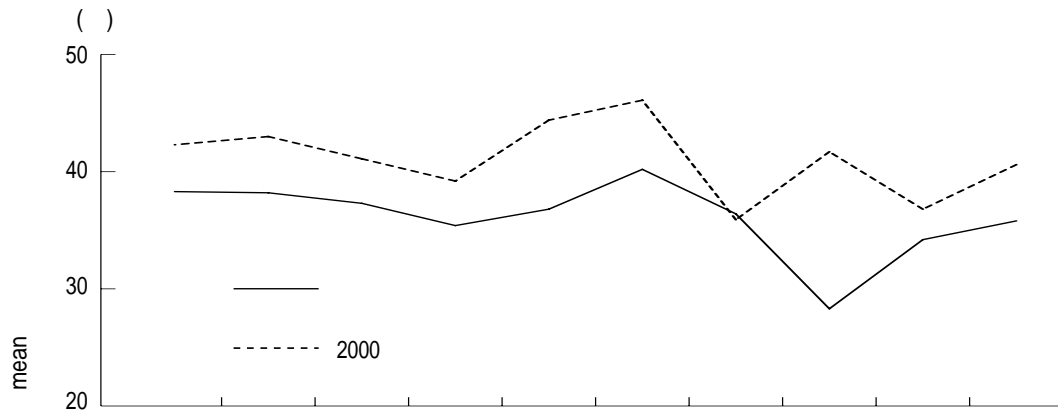
( : , )

	( )	2000		1997		가
		( )	( - )	( )	( - )	
(243)	36.4	40.8	4.4	38.1	1.7	2.7
(23)	34.9	41.3	6.4	36.5	1.6	4.8
(29)	34.7	40.2	5.5	37.1	2.4	3.1
(29)	39.5	41.9	2.4	42.6	3.1	-0.7
(6)	37.5	38.9	1.4	37.7	0.2	1.2
(28)	37.1	40.6	3.5	38.4	1.3	2.2
(64)	36.6	41.6	5.0	37.9	1.3	3.7
(5)	35.2	44.9	9.7	39.3	4.1	5.6
(35)	36.7	40.5	3.8	38.0	1.3	2.5
(22)	33.7	37.2	3.5	35.2	1.5	2.0
(2)	36.7	39.0	2.3	35.7	-1.0	3.3

(9.1 ), (7.6 ), (5.9 ) (-0.5 ) (-0.2 )

(46.1 ), (44.4 ), (43.0 )  
 (33.0 ), (35.9 ), (36.0 ), (36.1 ) , ,  
 1997 가 ,  
 . 1997 2000

< -11>



< -13>

( : , )

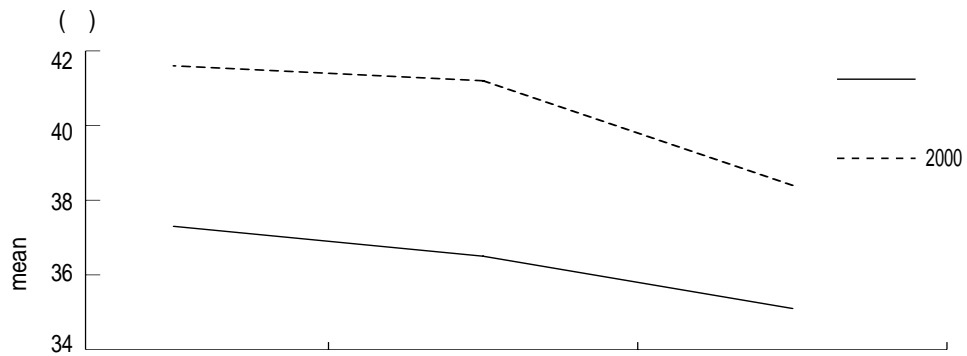
	( )	2000		1997		가
		( )	( - )	( )	( - )	
(230)	36.2	40.7	4.5	38.0	1.8	2.7
(47)	38.2	43.0	4.8	39.1	0.9	3.9
(24)	40.2	46.1	5.9	44.1	3.9	2.0
(22)	36.8	44.4	7.6	39.7	2.9	4.7
(18)	37.3	41.1	3.8	40.5	3.2	0.6
(2)	34.2	36.8	2.6	37.3	2.9	-0.3
(5)	38.3	42.3	4.0	42.5	4.2	-0.2
(6)	36.4	35.9	-0.5	37.0	0.6	-1.1
(4)	35.4	39.2	3.8	37.4	2.0	1.8
(2)	28.3	41.7	13.4	30.0	1.7	11.7
(4)	35.8	40.6	4.8	36.3	0.5	4.3
(18)	32.6	36.1	3.5	34.4	1.8	1.7
(13)	32.9	36.0	3.1	35.4	2.5	0.6
(6)	40.0	39.8	-0.2	37.0	-3.0	2.8
(5)	35.0	37.9	2.9	33.1	-1.9	4.8
(7)	35.7	40.9	5.2	33.9	-1.8	7.0
(5)	33.1	42.2	9.1	38.0	4.9	4.2
(9)	30.0	33.0	3.0	32.5	2.5	0.5

: ' 가

, 2000

(4.7 ), (4.3 )

< -11>



< -14>

		2000		1997		가
	( )	( )	( - )	( )	( - )	( - )
(243)	36.4	40.8	4.4	38.1	2.7	1.7
(32)	37.3	43.8	4.3	39.8	1.8	2.5
(165)	36.5	41.2	4.7	38.5	2.7	2.0
(46)	35.1	38.4	3.3	35.4	3.0	0.3

가 (3.3 ) .

1997 가

3.0 가 , 3

가 가

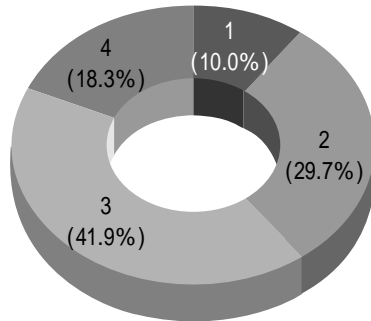
가 , ,

(2)

60.2%

가

< -13>



41.9%

10.0%

18.3%

가

- 1.
- 2.
- 3.
- 4.

가

가

1997 2000

가가

가

< -15>

( : %, )

		1	2	3	4
	100.0(279)	10.0	29.7	41.9	18.3
	100.0(23)	0.0	21.7	52.2	26.1
	100.0(33)	15.2	24.2	36.4	24.2
	100.0(30)	16.7	30.0	30.0	23.3
	100.0(7)	0.0	28.6	42.9	28.6
	100.0(4)	11.8	38.2	35.3	14.7
	100.0(82)	7.3	25.6	46.3	20.7
	100.0(5)	0.0	20.0	80.0	0.0
	100.0(38)	18.4	26.3	47.4	7.9
	100.0(22)	4.5	54.5	31.6	9.1
	100.0(5)	0.0	40.0	40.0	20.0

- 1.
- 2.
- 3.
- 4.



< -16>

( : %, )

		1	2	3	4
	100.0(262)	9.5	29.4	43.1	17.9
	100.0(56)	10.7	19.6	44.6	25.0
	100.0(29)	10.3	37.9	41.4	10.3
	100.0(24)	12.5	12.5	45.8	29.2
	100.0(20)	0.0	60.0	30.0	10.0
	100.0(3)	0.0	0.0	33.3	66.7
	100.0(7)	0.0	42.9	42.9	14.3
	100.0(6)	0.0	33.3	66.7	0.0
	100.0(5)	40.0	40.0	20.0	0.0
	100.0(2)	0.0	100.0	0.0	0.0
	100.0(4)	0.0	25.0	50.0	25.0
	100.0(20)	0.0	35.0	35.0	30.0
	100.0(13)	7.7	53.8	30.8	7.7
	100.0(6)	0.0	33.3	33.3	33.3
	100.0(5)	20.0	40.0	40.0	0.0
	100.0(7)	14.3	28.6	28.6	28.6
	100.0(5)	0.0	0.0	60.0	40.0
	100.0(11)	27.3	27.3	36.4	9.1

- : 1.  
2.  
3.  
4.

< -17>

( : , )

		1	2	3	4
	100.0(279)	10.0	29.7	41.9	18.3
(32)	100.0(38)	5.3	34.2	52.6	7.9
(165)	100.0(195)	11.3	27.2	40.5	21.0
(46)	100.0(46)	8.7	37.0	39.1	15.2

- : 1.  
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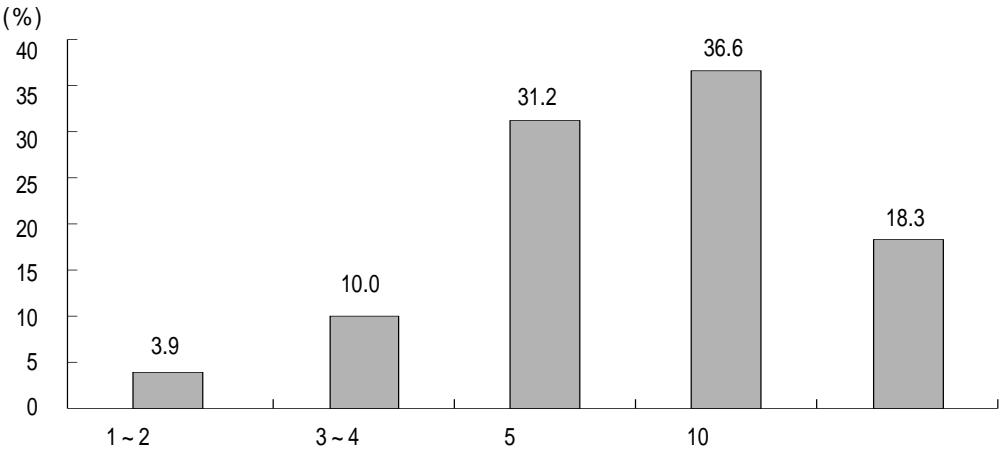
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가

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45.1% 5

46.7% 가  
가  
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( : %, )

		1 2	3 4	5	10	
	100.0(279)	3.9	10.0	31.2	36.6	18.3
	100.0(23)	0.0	0.0	39.1	43.5	17.4
	100.0(33)	12.1	3.0	15.2	42.4	27.3
	100.0(30)	0.0	10.0	23.3	20.0	46.7
	100.0(7)	0.0	28.6	57.1	14.3	0.0
	100.0(34)	5.9	17.6	32.4	35.3	8.8
	100.0(82)	4.9	14.6	34.1	32.9	13.4
	100.0(5)	0.0	0.0	40.0	60.0	0.0
	100.0(38)	2.6	5.3	31.6	39.5	21.1
	100.0(22)	0.0	9.1	31.8	54.5	4.5
	100.0(5)	0.0	0.0	40.0	40.0	20.0

가 .

5

< -19>

( : %, )

		1 2	3 4	5	10	
	100.0(262)	4.2	9.9	30.9	37.4	17.6
	100.0(56)	1.8	21.4	26.8	28.6	21.4
	100.0(29)	10.3	6.9	24.1	44.8	13.8
	100.0(24)	0.0	12.5	33.3	41.7	12.5
	100.0(20)	10.0	10.0	45.0	20.0	15.0
	100.0(3)	0.0	0.0	66.7	33.3	0.0
	100.0(7)	0.0	14.3	14.3	57.1	14.3
	100.0(6)	0.0	0.0	33.3	33.3	33.3
	100.0(5)	40.0	0.0	40.0	20.0	0.0
	100.0(2)	0.0	0.0	0.0	100.0	0.0
	100.0(4)	0.0	0.0	0.0	75.0	25.0
	100.0(20)	5.0	10.0	15.0	55.0	15.0
	100.0(13)	0.0	15.4	38.5	46.2	0.0
	100.0(6)	0.0	0.0	83.3	16.7	0.0
	100.0(5)	0.0	0.0	20.0	60.0	20.0
	100.0(7)	0.0	14.3	28.6	42.9	14.3
	100.0(5)	0.0	0.0	60.0	20.0	20.0
	100.0(11)	9.1	0.0	27.3	9.1	54.5

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( : %, )

		1 2	3 4	5	10	
	100.0(279)	3.9	10.0	31.2	36.6	18.3
	100.0( 38)	5.3	18.4	31.6	31.6	13.2
	100.0(195)	4.1	9.2	29.2	37.9	19.5
	100.0( 46)	2.2	6.5	39.1	34.8	17.4





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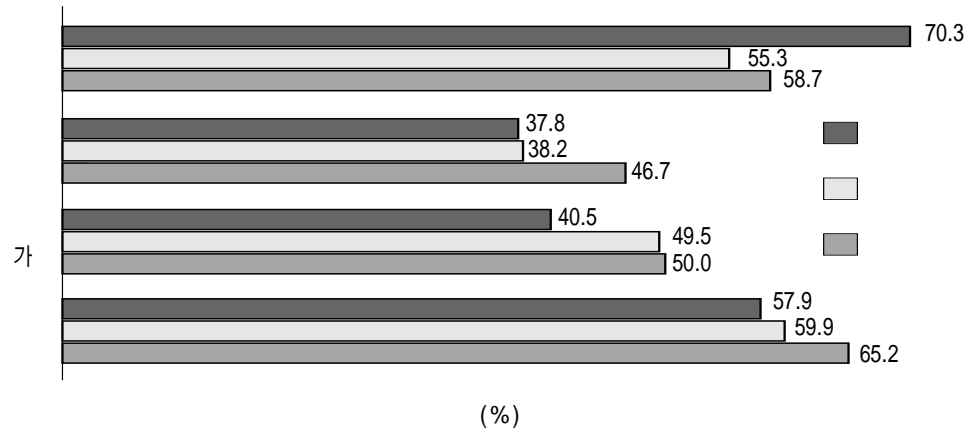
( : , %)

				가	
(259)	62.6	57.5	38.8	47.8	62.2
(54)	69.1	59.3	46.3	59.3	69.1
(29)	62.0	48.3	37.9	41.4	65.5
(24)	58.4	45.9	29.2	66.6	56.5
(20)	50.0	40.0	35.0	45.0	60.0
(3)	33.3	0.0	33.3	100.0	33.3
(7)	71.4	71.4	28.6	42.9	57.1
(6)	66.7	66.7	16.7	33.3	66.7
(5)	0.0	60.0	40.0	0.0	40.0
(2)	100.0	100.0	100.0	100.0	100.0
(4)	25.0	75.0	25.0	25.0	50.0
(20)	50.0	65.0	35.0	30.0	65.0
(13)	53.9	76.9	61.5	46.2	76.9
(6)	40.0	83.3	0.0	66.7	50.0
(5)	60.0	40.0	40.0	40.0	40.0
(7)	85.7	14.3	33.3	42.9	57.1
(5)	100.0	100.0	80.0	60.0	80.0
(11)	72.7	63.6	46.4	45.5	45.5

가'

가

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( : , %)

				가	
(276)	62.2	57.8	39.6	48.4	60.5
(38)	63.2	70.3	37.8	40.5	57.9
(192)	62.0	55.3	38.2	49.5	59.9
(46)	62.3	58.7	46.7	50.0	65.2

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2)	2.84
3)	1.20

‘ 3) ’ 가

‘ 3 1 2 ’

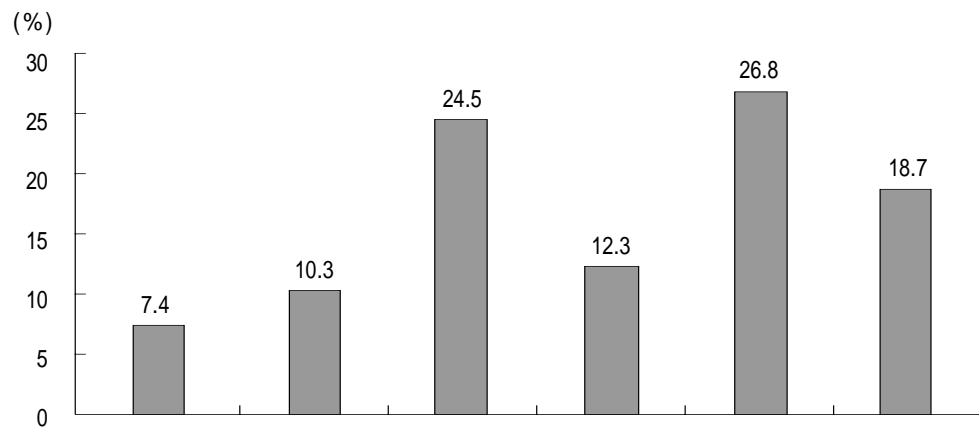
가?

가 (26.8%) 가  
(24.5%) 가 (18.7%)가  
가 70% 가  
; ‘ 가

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( : %, )

	100.0(555)	100.0(73)	100.0(390)	100.0(92)
	7.4	0.0	9.2	5.4
	10.3	15.1	9.7	8.7
	24.5	34.2	22.3	26.1
	12.3	4.1	14.6	8.7
	26.8	26.0	28.2	21.7
	18.7	20.5	15.9	29.3

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**V.**

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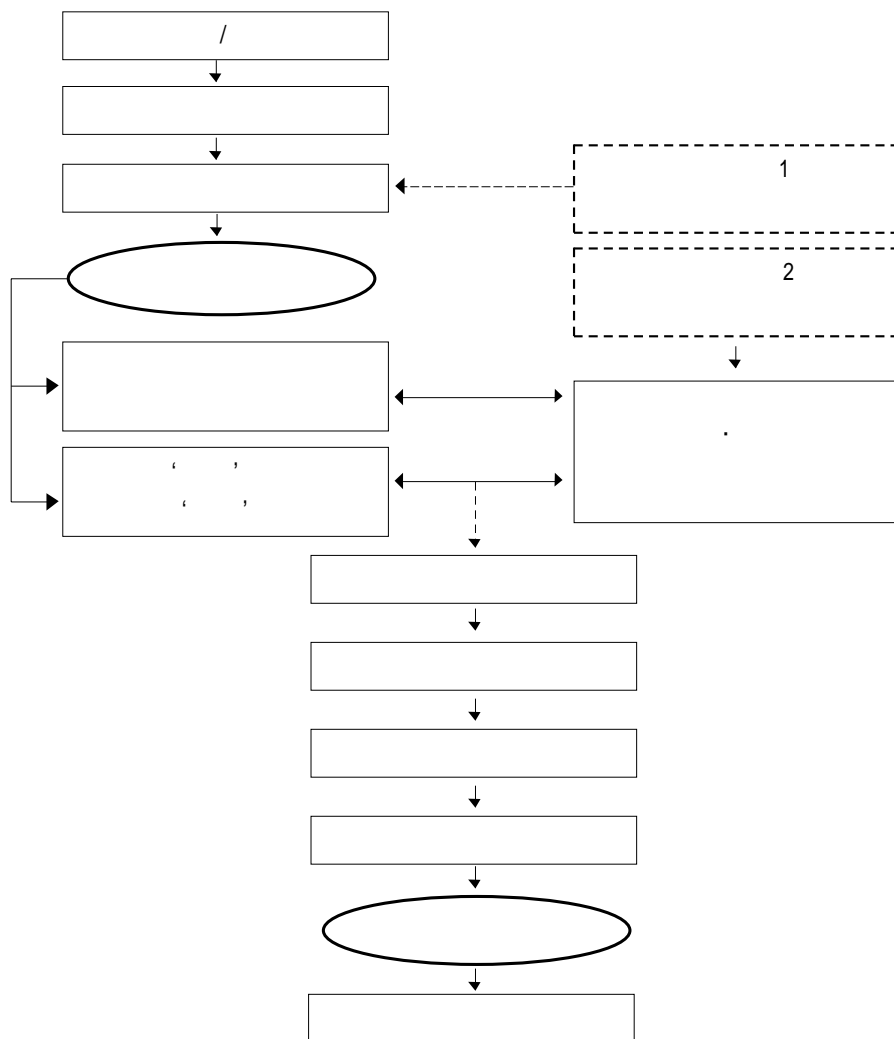
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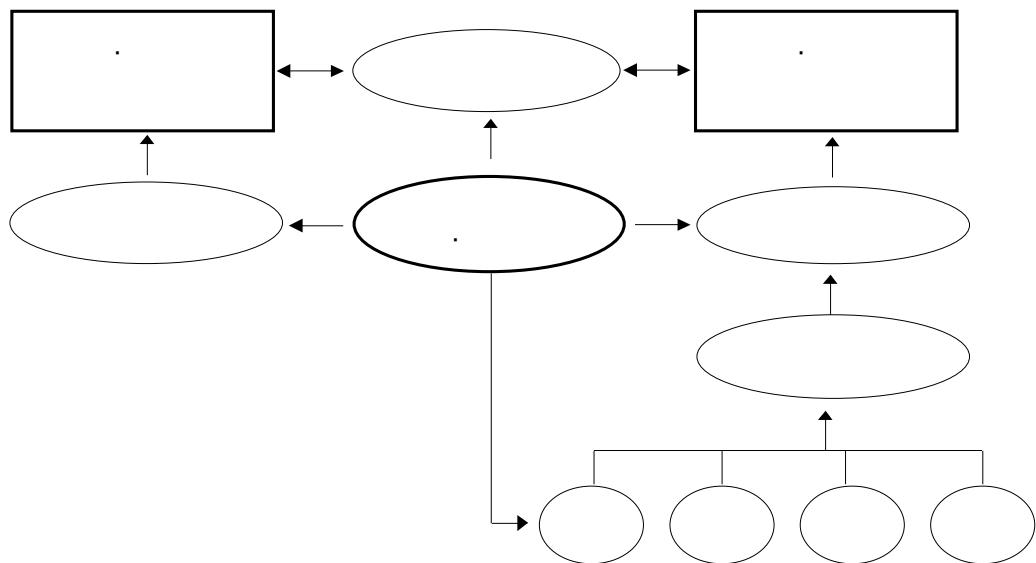
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## Abstract

### **The demand-supply situation and the old age aspect of construction craft workers**

This report was started from contradiction of ' long job-queue ' in a placement agency and ' shortage of workers ' in construction site. The clue of that problem was ' old age of construction workers '. Labor supply pool was filled with mainly old age workers but labor demand was focusing at the young and skilled workers. That is, mis-match of workforce was the key of the contradiction. Why this problem happened?

This was related to the type of employment. The employment structure of construction labor market in Korea was constrained of multiple sub-contract structure. Under this structure, construction workers were employed and controlled by foremen not by general contractors or sub-contractors. But foremen were outside of lawful companies and not employees of them in Korean construction industry. So construction workers became irregular and wide of the public protection. These made their working conditions worsen. And young workers would refused to enter the construction labor market. Then, how about the demand-supply situation of construction craft workers?

I tried to analyze proper workforce pool of construction workers, but failed. I could do just suggesting the basic method of analyzing. Because there weren't raw data about construction workers. So, I decided to depend on survey. I asked foremen about ' the demand-supply situation and the old age aspect of construction craft workers '. As the results, I got some fact-findings.

About the effects of new skills, they answered that new skills had reduced the workforce demand, and they expected this trend would be continued. And the size of construction workforce pool was on the tendency of decreasing in the

second half-year 2000, especially of skilled workers. About whether there is shortage of labor or not, the most answer was ' There were a lot of old age workers, but few skilled workers ', as we expected. In this report, I defined ' old age ' as a relative concept, that is, the difference between ' desired age of foremen ' and actual age of workers. A desired age of foremen means the age of highest productivity in the view of foremen 's experiences. In the second half-year 2000, the difference was 4.4 ages. 45.1% of responsor worried about exhaustion of skilled workers in 5 years and 81.7% of responsor in 10 years. And over 60% of responsor had experienced ' delays of unit project ', ' cost overruns ', and ' schedule delays ' as the effects of old age. We could know the realizing of the negative effects. To foremen asking about the reasons for younger 's refusing to enter construction labor market, they replied as following order; ' no vision for the future ', ' employment unstability ', ' dangerous working conditions ', and so on.

So we can extract various improving methods from upper survey. First, we can think some essential prerequisites to attract young workers into construction. I think ' suggesting vision as a occupation ' is the most important thing above all. It is necessary to make actual training and certificate system. And we should cope with employment unstability through the employment insurance system especially during winter. Futhermore, we should revise present institutions in order to include irregular workers. Also, we should improve dangerous working conditions and irrational practices of long working hours.

Second, in order to improve demand-supply structure of workforce those methods as following are needed. We have to study the ways to gather information of workforce by occupations and skill levels from production site. And we should make a predict model of workforce demand by using this raw data. On the other hand, we should make a system to be able to seize the information of workforce supply side as by-products of the employment insurance system. In addition, we should implement informal job-match network through using public placement agency of government or civil job-center of union.

Third, we should research about the possibility of labor replacement, importing of foreign workers, training multi-skilled workforce, and etc.



(gbshim @ cerikrekr)

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