

ASIA MARKETING JOURNAL

Volume 1 | Issue 4 Article 3

9-1-1999

신제품 개발조직의 지식역량 향상에 관한 연구

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Available at: https://doi.org/10.53728/2765-6500.1024

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```
[ ]
, (knowledge)

( ) 7/7/
(issue)7/
- R&D, ,

- R&D, ,

(New Product Development; NPD)
7/
7/
(knowledge competence)'

7/
(knowledge based perspective)
(organizational learning)
(distributed cognition theory)
```

· : 99. 9 : 99.11

```
1980
                                                                          30%
                                                                                    1985-90
                 가
       42%
                                                   5
                                                                52%
                                                                          가
       (Kleinschmidt & Cooper, 1995).
                                                                 60%
                                                             가
             가
                (sunk cost)
                                                              (technology lock-in)
                     가
                                                             (knowledge)
                                                   ; knowledge management)
                       ; organizational learning),
                   ; learning organization)
                                                             가
          (
                                                      )
                                (
            가가
                                     (issue)
                                             (New Product Development; NPD)
                                                               가
                                                                                    (knowledge
competence)'
                                                         가
                                                                                 55%(Maidique &
                                          54.3%,
                                                      59.8%(Scott et al, 1992),
  Zirger, 1984)
                                    )
                                  가
   1999.9
                                                                                      48
```

(knowledge based perspective)

(organizational learning) , (distributed cognition theory)

.

2.

2.1

(rational plan)
, (communication web), (disciplined problem solving)
(Brown & Eisenhardt, 1995).

[1] 가

	(Rational Plan)	(Communication Web)	(Disciplined Problem Solving)
	, ,		
	- 가, ,		-
	, ,		
	(X-Functional)	/	(X-Functional)
		/	
		가	,
		71	
()	(, ,		(

```
4
```

```
1
                                                                  (senior management),
                                                                                (cognitive theory)
                                                                     (tautological)
             (subtle control)', '
                                                              )
                                       (vision)', '
                                      가
                                                   (Brown & Eisenhardt, 1995).
2.2
                                               (knowledge embodiment)
(economic rent)
                                                   (Schendel 1996).
                                                                                 (forces)
                                      (
                                                             ; Porter, 1980)
                                                                                ; Ghemawat, 1986;
Shapiro, 1989)
                                       (privileged)
가
                                (firm specific capabilities)
                                                                                          (isolating
                                      (Rumelt, 1984; Teece, 1984; Wenerfelt; 1984; Dosi, Teece &
mechanism)
Winter ,1989; Prahalad & Hamel, 1990; Dierickx & Cool , 1989; Porter, 1990).
                                                                              (unique bundle)
                                                                                            가
                                                                                           (Barney,
1991).
                            가
                                                                        가
```

가 가 (embodied) (Grant, 1996). (core competence; Prahalad & Hamel, 1990) (Klein et al. 1978; Amit & Shoemaker, 1993; Peteraf, 1993; Lippman & Rumelt, 1982; Dierickx & Cool, 1989; Barney, 1991). (Conner 1991; Kogut & Zander 1992,1996; Conner & Prahalad,1996). (dynamic capability) (firm specific capabilities) 가 () (Dosi, Teece & Winter, 1989; Prahalad & Hamel, 1990; Hayes & Wheelwright, 1984; Dierickx & Cool, 1989). (learning) (Drucker, 1985). (collective) (team) 가 (embedded) (gap)

(embodied) ((knowledge) competence) (가 (gap)가 가 가 가 가 가 가 (Mahadvan, et al., 1998). (eg; Adams, Day, & Dougherty, 1998; Ottum & Moore, 1997; Methe, Toyama, & Miyabe, 1997; Moorman & Miner, 1997; Song, Souder, & Dyer, 1997; Madhavan R. & R. Grover, 1998; Li Tiger & Calantone, 1998). (marketing information processing) 가 (knowledge competence) **3.** 3.1 3 가(technology push)? 가(market pull) (Price, 1996).

Nelson & Winter(1982) (problem solving) ,

, (capability) 7 knowledge (knowledge competence)

. , , (organized) (structured)

(systematic)

, 가

' 가(What is right)' ' 가 가 가

(What works or works better)'

•

(commercial knowledge; Demarest, 1997) (capacity to act; Sveiby, 1997, p.37)

, , 4
(Drucker, 1993; Spender, 1996) 7

가 (;

private goods) (Spender, 1996).

(competence) . Day(1994, p.38)

(collective learning) Prahalad & Hamel(1990)

.

(knowledge competence)

7 가가 (public goods) (Arrow, 1984) 가 가 (approapriability)

```
(dynamic capability)
                                                                         (process)
                                                                       가
                     (stock)'
   3.2
                                                                   가
                                                                (Shrivastava, 1983).
                                                                   (Nonaka, 1990).
                  (shared interpretation; Sinkula, 1994)
                                                                가 가
                                                                          가
              (feedback)
                                                                                 (Glazer, 1991;
Quinn, 1992).
                                                                                 (interface)
               (Gupta, Raj, & Wilemon, 1986, p.7)
                                                                                         (cross
functional)
                                                                     (Cooper & Kleinschmidt,
1991.p.140).
                                                                                            가
                                                               (Slater & Narver, 1995).
                                                         (inimmitableness): Day, 1994; Prahalad
& Hamel, 1990)
                                                                                   (immobility)
   가
               (Day, 1994).
                                               가 가
   1999.9
                                                                                      54
```

가 가 (undiminishableness: Prahalad & Hamel, 1990) 가

.

(receptive capacity),

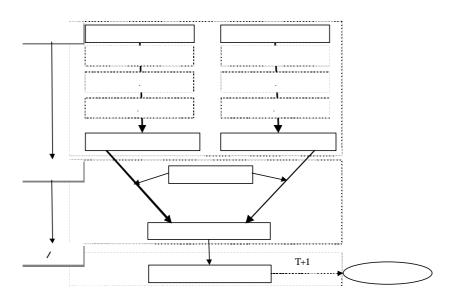
(combination capacity),

(coordination capacity), (gap)

(maintenance · transformative capacity)

.

[1]



4.

4.1 (receptive capacity)

가 - (intangibility)

(intangibility) 가

[3]			
	• 가 가	(가)
	•		

(information

impactedness) (hidden information) (hidden action)

(Arrow, 1985; Bergen et al, 1992) 5.

가 (incentive),

. (incomplete

contract) ⁶.

가

(Reed & DeFillipi, 1990; Baradwaj, Varadarajan, & Fahy, 1993)

,

.

[4]

[7]		
		· (locus) ·
	(filtering)	· 가 가 ·

_

가 .

(), (Gurbaxani & Whang, 1991) (Huber, 1982), ,

(Choudhury & Sampler, 1997). , , (information

transmission cost) .

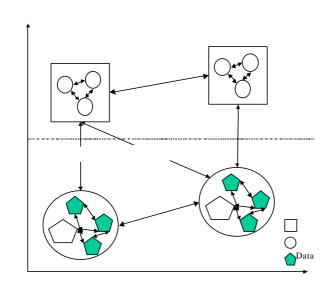
```
)
                                     (scanning)
          (locus)
                                                  (monitoring)
                                                                  (network externality)
                                                                                       가
                                                         가
                     (communication goods)
      가
                            (von Hippel, 1982).
                                                                 (filtering)
                                                                            (trust)
                         가
                                 가
                                                            가?
                                                                            가
                                             가
                                                                                   (:
       )
  )
              (Aoki, 1990; Mody, 1993).
       (learning by doing)'
                                 가
          가 )
                                                                            가
  (
                                                  (Heide & Weiss, 1995).
                                              가
                                                         가
                                                                          가
    (eg: Madhok, 1995; Chiles & McMackin, 1996).
         가
                                            가
(Brusco, 1982; Axerlod, 1984; Weitz & Zap, 1995).
```

4.2 (combination capacity)

(Simon, 1985), (eg; Granovetter, 1973)

(complexity)

[2]



(in-level) - (cross-level)

· (articulation) (internalization)

(Hedlund, 1994).

```
1 4
```

```
(skill)
              (routinize)
                                                                                  가 가
                                     (embodiment)
                   가
                                (Lynn, 1998; Madhavan, et al., 1998).
(reflection)'
                                                                                   (Nonaka, 1987;
Hedlund, 1994).
          (cross-level)
                                                (expansion)
                                                                      (appropriation)
         ])
                2]
                        ).
                                                      (team)
                                                (Madhavan & Grover, 1998).
                                                                                                가
                                     (solitary)
                                                                                          가
    (Patel, Kaufman & Madger, 1996 p.140).
                                          (well-coordinated)
            (collective knowledge; Spender, 1996)
                                            가
                                       (dialogue)'
                                                              (Hedlund, 1994).
                                                  가
                                                           (Hedlund, 1994).
                                          :dialogue)
     :reflection)
                                                       (knowledge vector)
              가
```

•

(:shared mental model)

(redundancy) (Grant, 1996;

Madhavan & Grover,1998; Mody, 1993, Nonaka, 1990).

가

가 가 (Grant, 1996; Nonaka

& Takeuchi, 1995, pp. 80-81).

(messages transmitted

in the back channel: Yngve, 1970)'7\rightarrow (Pinto, Pinto, & Prescott,

1993) 가

(Hudlund & Nonaka, 1993).

(link)가

(Meyers & Wilemon, 1989; Mezias & Glynn, 1993).

[5]

	Grant, 1996; Nonaka & Takeuchi, 1995		
	Hudlund & Nonaka, 1993; Meyers & Wilemon, 1989; Mezias & Glynn, 1993		
	Teece, 1998; Madhavan & Grover, 1998		

가

(Bower & Hilgard, 1981).

가

가

(Mezias & Glynn, 1993; Nonaka, 1990).

(Rogers & Rogers, 1976) 가

(information gate-keeper)

,

(Mahadvan, et al, 1998; Teece, 1998; Mahadvan, et al, 1998).

4.3 (coordination capacity)

```
Grant(1996)
                                                 가
                                                           가
    (:
가
                                                                         가
                              Grant 가
                                                                                가
                                                 (combination capacity)
                                                                              (coordination
capacity)
                                              (integration)
                                                                                    (cross-
                                                가
functional linkage)' ' (collaboration)'
                  (Jassawalla & Sashittal, 1998).
(R&D- - )
                                           가
    (goal)가
                                                (eg; Song & Parry, 1993; Gupta & Wilemon,
1988; Lilien & Yoon, 1989;
                                &
                                           , 1989).
                                                                     가
                                                            (faith)
                                                                               (Kreitner &
  (trust)
Kinicki, 1992)
                                                        JIT(Just in Time)
                              (eg; Zand, 1972, 1981).
                               (
                                         )
                            ( )
                               가
```

```
1 4
```

```
(Mahadvan & Grover, 1998).
                           가
                                                       (Zand, 1981)
                                               (Hedlund & Nonaka, 1993).
  (cross-functional)
4.4
                        (maintenance · transformative capacity)
                              (path-dependent)
                                                                                    (techniques)
       (Allen, 1966; Laudan, 1984; Rosenberg, 1982)
                   (Crane, 1972).
                                     (David, 1985; Dosi, 1982)7.
                                                 ⁵가
                                                                    가
                                                                       (Garud & Nayyar, 1994)
                                               / 가
                                                                                           가
  가,
                                                                    (organizational memory: Levitt
& March, 1988; Walsh & Ungson, 1991)
                                                            (inter-temporal)
                                                                     (synthesis)
                                  (restructuring)
                           (time lag)가
                                                 (Garud & Nayyar, 1994).
                               (Wilson & Hlavacek, 1984).
```

```
(Garud & Nayyar, 1994) (procedure),
/ (Foster, 1971; Slater &
Narver, 1995) (turnover)
(Slater & Narver, 1995; Walsh & Ungson, 1991).

(Garud & Nayyar, 1994).

7 7 7
```

& March, 1988) (core rigidity: Leonard-Barton, 1992)

(Dickson,1992) .

(unlearning) 7

(Schein,1990,1993).

(competence trap: Levitt

5.

:

5.1

기?) , , (

(learning intent)7}
(Hamel, 1991). Edmund & Husserl(1968) (consciousness)

가 (frame) (Nonaka, 1994).

```
1 4
(self-fulling) (self-actualization)
(Weick, 1979). 7h 7h
7h 7h
(Searle, 1983, p.166; Nonaka, 1994).

(Mody, 1993)
.
, Nonaka(1994)
(( ; fluctuation)
```

Proposition 1:

5.2 :

가 (transparency)
(Hamel, 1991).
(Hamel, 1991).
가 .

(paradox) . ,

```
1
                                                                                             4
                                                                       (knowledge link)
                     가
                                                                                     가
                  (flexibility)
               (Volberda, 1997).
                                                                                            (
            ),
                                                                                             ),
                                                                                           가
                                  가
                                                                                  가
                                                   9 (eg; Cohen & Levinthal, 1990; Daft & Lewin,
1993; Liebskind et al., 1996).
                                                             (Camagni, 1989; Teece, 1989).
                                        (
                                                )
                  가
                                                        가
                                                                                     (eg; Burns &
                                           (organic)
Stalker, 1971, 1995; Capon et al., 1992). Miles & Snow(1992)
                                                   (Mintzberg, 1987; Gupta & Govindarajan, 1991;
Hart, 1992; Woodman, Sawyer, & Griffin, 1993)
                                                                           가
                                                                (eg; Stata, 1989; Tushman & Nadler,
1986)
                        (Cohen & Levinthal, 1990; Henderson & Clark, 1990)
          (eg; Mezias & Glynn, 1993)
          가
                                                                   . Hagedoorn & Schakenraad(1994)
                                                    가
                                 가
                          (hazard)
                                               (Hagedoorn, 1995)
```

65

Proposition	2:				
Proposition	3:		·		
5.3					
	가		(Gulati et al., 199	94)	
	(Macr	neil 1980).			
					naka(1994)
71		가		(intention) 10	
Nonaka 가					가
			•		
	가	·	(autonomy)		가
			,	,	
		(No	onaka, 1994).		, ,
	가	가	(Cohe	n et al., 1972).	
	• 1	- 1	(Morgan, 1986		(self-organization
			_		가 .

¹⁰ Edmund & Husserl(1968) (consciousness)

(Nonaka, 1994).

```
(Nonaka, 1994). 3M

(())
(())
(())
((approval))
(Brown & Eisenhardt, 1995). Imai et al.,(1985) Tacheuchi & Nonaka(1986)
(())
((subtle control))
((delegation) (Brown & Eisenhardt, 1995)

(())
(Zirger & Maidique; 1990; Cooper & Kleinschmidt, 1987; Souder & Song, 1998).

Proposition 4:
```

5.4 (infrastructure)

```
(information technology)

(enabler)

(customized product)

(infrastructure)

7

( )

( )
```

·

. ()

(architecture)

(appropriability)

Proposition 5: , /

6.

(Competitive Force) (Strategic Conflict)

(firm specific resource)
(firm specific competence)-

() 가가 가

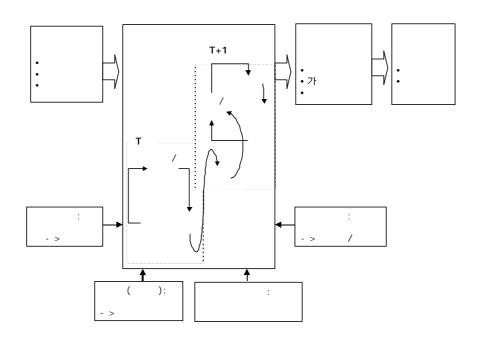
가

. (Team)

가 . ,

가

[3]



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