

:

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# 1.

가 .  
 , ,  
 .  
 가 1980  
 가 .  
 가 Bayh-Dole Act

가 가 가  
 .  
 . 1990  
 ,  
 가  
 가 가 가 ,  
 가 Stanford, MIT, Johns Hopkins 가 가 .

2001 3 6 100 , KAIST 1994 .  
 ( , 1999). ,  
 ( , 1999; ,  
 2000).

가 가  
가

2.

1)

가

1950

Stanford Frederic Terman 1930  
(William Packard, David Hewlett)

Terman Stanford Honors  
Coorporative Program

Technology Licensing, Stanford Computer Forum

가 ( 1999; Saxenian

1991; 1993).

Stanford MIT, Johns Hopkins

2

MIT

4000

MIT

2

MIT

가 Industry Liaison Program, Technology  
Licensing Office, Office of Intellectual Property Counsel

가

1980

Texas, UC Berkeley, Harvard, NC Capel Hill, Purdue  
(Clerk, 1997; Gernsey and

Smith, 1998; Schager, 1997).

가

가

(Association of University Technology Managers, AUTM)

가

가 가 1990

가 가

AUTM 가

1991 260 1999 322  
260 322 가 (AUTM, 2000: 9).  
가 , 1995

가

< 1> AUTM (1991- 1999)

		9 (N=77)		9 (N=100)		9 (N=82)
1991	1,643	1,297	N.A.	N.A.	186	149
1992	1,951	1,435	N.A.	N.A.	248	196
1993	2,433	1,561	1,603	1,310	323	253
1994	2,429	1,732	1,874	1,492	360	282
1995	2,872	1,857	1,833	1,429	424	326
1996	3,261	2,107	2,095	1,645	514	397
1997	4,267	2,983	2,645	2,042	611	473
1998	4,808	3,182	3,224	2,469	725	590
1999	5,545	3,595	3,661	2,834	862	655

: AUTM (2000: 9- 16)

< 1> AUTM

가 1991 1643 가  
1999 5545 가 . 가  
1993 1603 199 3661 .

가 . . . , 1991 1 8  
 , 1999 8 6 가 .  
 가 . < 2> AUTM  
 , 가 154 1980  
 1993 1169 . 200-400  
 , 1999 344 가  
 27 ,  
 490 , 50  
 (AUTM, 2000).

< 2> : 1980-98

		1	
1980-93	130	154	1,169
1994	83	156	241
1995	96	172	223
1996	86	168	248
1997	101	171	333
1999	114	176	364
1999	111	188	344
			2,922

: AUTM (2000: 16).

2)

(Kneller, 1999; Owen-Smith, forthcoming).

, 1, 2

가 . ,

1930

가

Tenure System  
가

가

“ ”  
가

가

가

Owen-Smith

가 가

, < 1> Owen-Smith

5000

가

1999

가

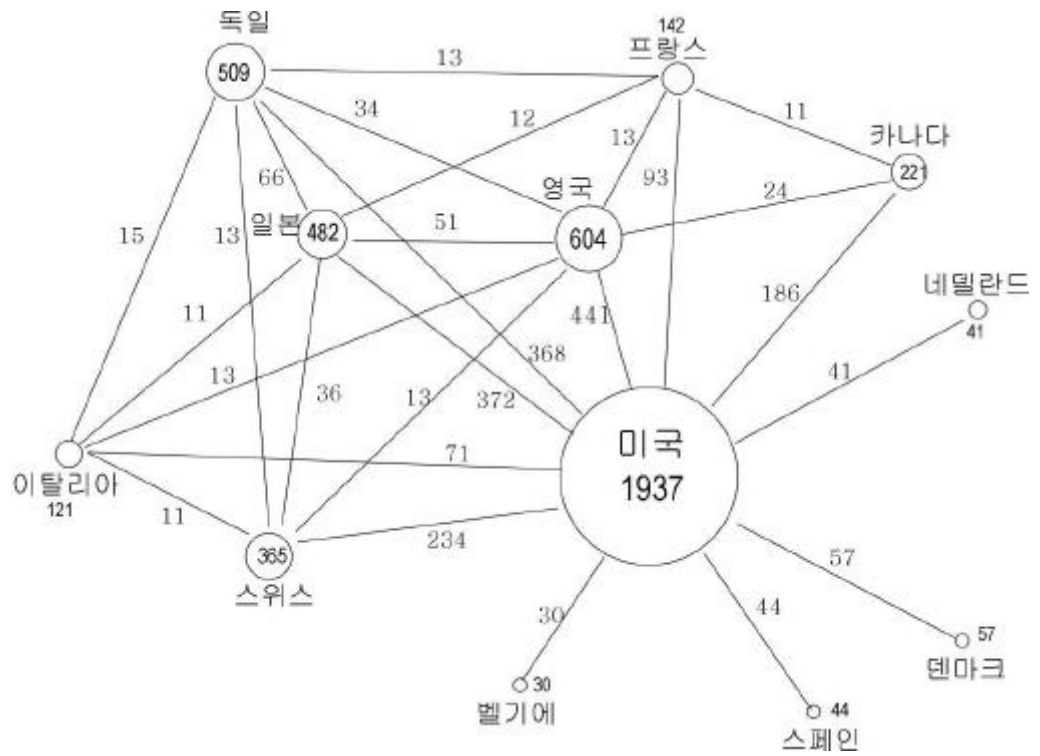
1988  
가

가가

가 가

가 ,  
가

< 1 >



: Owen-Smith, et al. (forthcoming: 23).

3)

1960  
가  
1980  
가  
1990  
가  
1990  
가



1368

1

17 7

, 가 38%  
가  
16%

가

1)

2001 30

Program , 가

Stanford Computer Forum (SCF), Honors Cooperative Program (HCP), Stanford Instructional Television Network (SITN), Tutored Videotape Instruction Program (TVIP)

1950

1954/55

HCP

Sylvania, Hewlett-Packard, SRI International



General Electric

HCP가 1960

가

60

1969

HCP

Stanford Instructional Television Network (SITN)

가

SITN

Hewlett-

Packard가

90km

70km

Tutored Videotape Instruction Program (TVIP)

가

가

( )

가

가

, 가

TVIP

1995

Stanford Center for

Professional Development

200

146

가

5

Stanford Computer Forum

1965

가

3

(Annual Meeting),

가

Faculty

Liaison, 1, 2

150

Asia Pacific Research Center (APARC)

APARC

Sony

가

가

Visiting

Scholarship

. APARC

가

가  
가  
가  
가

2)

1800

1950 가  
(Castells and Hall, 1994). Fredric Terman 가

1953 70  
Varian Associates가 1953 , Hewlett-Packard,  
Eastman Kodak, General Electric  
, Bill Hewlett David Packard가 1939  
, 1955  
2001 162 150 가  
, 2 3 가  
( , 1999).  
Stanford Management Company

3)

50 UC Berkeley 1930 Terman Hewlett-Packard SUN Microsystems, Silicon Garphics Yahoo Google 가 가 가 가 가 가 가 가 150 36 48%가 가 , Yahoo (1995 ) Google (1998 ) 가 Hewlett-Packard (1939 ), Silicon Graphics (1982 ), SUN Microsystems (1984 )

(1) 1: Hewlett-Packard

Hewlett-Packard Fredrick Terman William Hewlett David Packard 1934 가 MIT 1936 MIT (Oscillator) 가 (Radio Oscillator) 가

가  
Hewlett-Packard가  
Sperry Gyroscope 1000 , 500  
, 500  
4 . 1939 1 , 1995  
10 1 300  
. 2000 8 8500  
488 .

(2) **2: Cisco Systems**

1981  
Sandy Lerner , Leonard Bosack 1984  
1970  
, “SUNet(Stanford University Network)”  
가  
LAN(Local Area Network) WAN(Wide-Area Network)  
, multiprotocol internetworking 가  
Medical School SUMEX-AIM  
Bill Yeager . Yeager 1974  
Medical School (NIH)  
Artificial Intelligence(AI) (1973- 1992)  
1980 Xerox가 Ethernet  
가  
SUMEX 1980 TIP(Terminal Interface Processer)  
, Yeager가 . Yeager 1981 PDP 11  
, 1982 TIP  
Andy Bethtolsheim  
SUN Microsystems . Yeager  
가 , 1985 SUMEX  
1986  
Multiple-Protocol Router Office of Technology Licensing  
Yeager

가 , 85% SUMEX  
 가 . Yeager SUN Microsystems  
 , 1989 .  
 ,  
 가 2000 6 ,  
 4 3 , 189  
 115 , 225  
 75 .

**(3) 3: Google**

Brin Google, Inc , Larry Page Sergey  
 . Google Internet  
 Site .  
 Page Brin (OTL) .  
 Page ,  
 Advanced Management Systems, CongiTek  
 Terry Winograd  
 , Google 가 Brian,  
 Craig Silverstein Google Brin  
 Page ,  
 Page Google ,  
 Page Brin OTL . OTL  
 가  
 Page Brin Google . Google  
 1998 가  
 , 1999 6 2 5  
 , 1999 12 6 . 2001  
 6 5  
 , 200 (AUTM,  
 2000).  
 , Page Winograd  
 , Jeffery Ullman, Rajeev Motwani Google  
 . Page  
 Google Craig Silverstein

, Google

Google

4.

가

가

가

MIT

UC

Berkeley 50

가

가

가

가

가

- . 1999. :  
, KAIST .
- . 1998. “ ”, 『 』  
1 2 , 97- 127 .
- . 1999. ,  
(STEPI).
- . 1999. “ : 美國 成功要因,” 『 』 34 4  
183- 194 .
- . 2000a. “ : ”  
『 』 12(1): 1- 15.
- . 2000b. “ : ”  
『 』 22 2
- . 1999. “ ”, 『 』 21 2 , 185-206 .  
. 2000. ”  
, 2000 11 11 , .
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Wiesendanger, Hans. "History of OTL: Overview," <http://otl.stanford.edu/about/resources/history.htm>

<http://aparc.stanford.edu/>

<http://ilp.mit.edu/corpder/>

<http://ilp.mit.edu/ilp/>

<http://ilp.mit.edu/ocr/>

<http://otl.stanford.edu/about/resources/history.htm>

<http://www.mit.edu/tlo>

<http://www.cisco.com>

<http://www.google.com/corporat/>

<http://www.google.com/press/overview.html>

[http://www.netvalley.com/archives/mirrors/stanford-magazine-founding\\_fathers.shtml](http://www.netvalley.com/archives/mirrors/stanford-magazine-founding_fathers.shtml)

[http://www-forum.stanford.edu/About/History/valley\\_of\\_hearts.html](http://www-forum.stanford.edu/About/History/valley_of_hearts.html).

[http://www.stanford.edu/group/wellsping/cisco\\_spontlight.html](http://www.stanford.edu/group/wellsping/cisco_spontlight.html)

<http://www.stanford.edu/group/wellsping/economic.html>

[http://www.stanford.edu/group/wellsping/hp\\_spontlight.html](http://www.stanford.edu/group/wellsping/hp_spontlight.html)

<http://www.stanford.edu/home/stanford/history>

<http://www.stanford.edu/stanford/facts/chron.html>