1- History of Silicon Valley Cluster Formation

1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000
(Since 1890)	10	20	30	40	50	60	70	80	90	100	110

Core Universit 1891 Stanford University founded

University-originated VB • Activity 1927 Professor Terman starts his activity

in cooperation with industry, academia and government 1939 HP

1946 SRI (Open class)

Research Inst., Inviting Business 1930 Moffet • Field, Aims Research Center invited

1939 NASA invited

1950s Experimental facility of Lockheed Corp. invited

IBM Almaden Institute

1970 Xerox Palo Alto Research Center (PARC)

High-tech VBs appeared (1939 HP founded) 1956 Shockley Semiconductor Lab (being as a nurturing of talented people for VBs)

1957 Fairchild Semiconductor

1968 Intel

1976 Apple Computer, Inc.

1982 Sun Microsystems, Inc., Silicon Graphics, Inc.

Rise and prosperity of VC 1969 Mayfield

1972 Kleiner Perkins Caufield & Byers (KPCB)

1977 Matrix Partners, NEA

1985 Accel Partners Communication Fund

1986 Cisco VC Group

1998 Intel Capital

Rise of Spin-off. MOT-modeled VBs

1995 **Ariba**, Inc.

Commers One

Other internet venture businesses 2001 Collapse of the bubble/

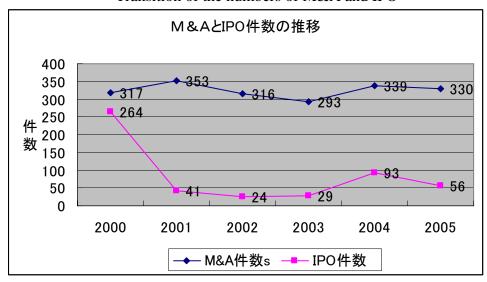
M&A exit/ Bioventure

Integration between IT and life science

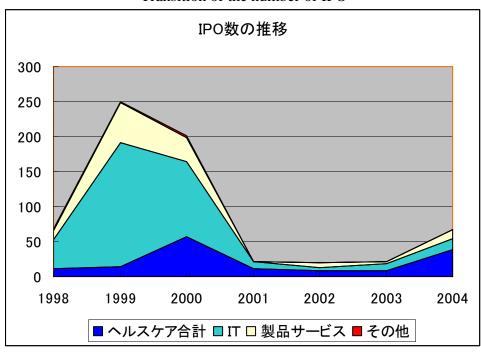
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2-VC Investment & Market Data

Transition of the numbers of M&A and IPO



Transition of the number of IPO



Healthcare total IT Product services Others

Total investment of each sector of VC (amount, %)

		2002	2002	2003	2003	2004	2004	2005	2005
Industry	Ind. Segment	Total		Total		Total		Total	
Healthcare	Biopharmaceuticals Healthcare	\$3,325	15.1%	\$3,647	18.9%	\$4,629	21.4%	\$3,787	17.1%
	Services	\$405	1.8%	\$289	1.5%	\$385	1.8%	\$397	1.8%
	Medical Devices	\$1,715	7.8%	\$1,808	9.4%	\$1,642	7.6%	\$2,024	9.1%
	Medical IS	\$434	2.0%	\$351	1.8%	\$313	1.4%	\$485	2.2%
	Other Medical		0.0%	\$3	0.0%		0.0%	\$3	0.0%
Healthcare Total		\$5,880	26.7%	\$6,098	31.6%	\$6,968	32.2%	\$6,696	30.3%
Information	Communications	\$4,675	21.3%	\$3,049	15.8%	\$2,821	13.0%	\$2,955	13.4%
Technology	Electronics Information	\$1,088	4.9%	\$955	5.0%	\$1,402	6.5%	\$1,136	5.1%
	Services	\$563	2.6%	\$546	2.8%	\$925	4.3%	\$1,111	5.0%
	Semiconductors	\$1,467	6.7%	\$1,701	8.8%	\$1,839	8.5%	\$1,652	7.5%
	Software	\$5,559	25.3%	\$4,583	23.8%	\$5,466	25.2%	\$5,111	23.1%
	Other IT								
IT Total		\$13,352	60.7%	\$10,835	56.2%	\$12,453	57.5%	\$11,966	54.1%
Retail & Cons/Bus Prod/	Cons/Bus Products	\$140	0.6%	\$261	1.4%	\$170	0.8%	\$131	0.6%
Service	Cons/Bus Services	\$2,057	9.4%	\$1,703	8.8%	\$1,577	7.3%	\$2,415	10.9%
	Retailers	\$192	0.9%	\$102	0.5%	\$123	0.6%	\$216	1.0%
Retail /Bus Prod/Serv	Retail /Bus Prod/Serv Total		10.9%	\$2,066	10.7%	\$1,870	8.6%	\$2,762	12.5%
Other Total	Other Total		1.6%	\$290	1.5%	\$362	1.7%	\$705	3.2%
Grand Total		\$21,981	100.0%	\$19,289	100.0%	\$21,654	100.0%	\$22,128	100.0%

Source: Venture One Totaled and made out by data (investments amount base: unit 1million dollars, %)

Ver	nture Capital Inve	estment in United	States	Compan	ies
By	Stage				
07/0	01/2005 to 09/30/2	005			
No.	Stage	Companies	Deals	Investm	ent(\$M)
1	Seed	31	31	42.7	(0.8%)
2	Startup	148	148	828.3	(15.7)
3	Early Stage	37	37	127.9	(2.4)
4	Expansion	242	245	1605.0	(30.5)
5	Later Stage	252	253	2659.0	(50.5)
-	Total	710	714	5262.9	(100.0)

Vei	Venture Capital Investment in United States Companies									
By	By Region									
07/	07/01/2005 to 09/30/2005									
No	Region Companies Deals Investment(\$									
1	Silicon Valley	219	219	2068.5 (39.3%)						
2	New England	87	89	612.5 (11.6)						
3	Southeast	57	59	460.6 (8.8)						
4	LA/Orange County	44	44	339.8 (6.5)						
5	NY Metro	41	41	249.2 (4.7)						
6	DC/Metroplex	39	39	202.2						
7	Texas	39	39	204.2						
8	San Diego	36	36	204.6						
9	Northwest	35	35	226.9						
10	Midwest	32	32	94.9						
-	Total	710	714	5262.9 (100.0)						

Ver	Venture Capital Investment in United States Companies									
By	By State									
07/0	07/01/2005 to 09/30/2005									
No.	State Companies Deals Investment(\$M									
1	California	302	302	2622.1 (49.8%)						
2	Massachusetts	72	73	524.4 (10.0)						
3	Texas	39	39	204.2 (3.9)						
4	New York	31	31	139.6 (2.7)						
5	Washington	25	25	164.7 (3.1)						
6	Maryland	22	22	116.2						
7	Florida	20	20	158.7						
8	New Jersey	20	20	162.8						
9	Colorado	19	19	168.1						
10	North Carolina	18	18	174.9						
-	Total	710	714	5262.9 (100.0)						

 $@\ 2005\ Price waterhouse Cooper/Venture\ Economics/NVCA\ Money Tree\ Survey$

Data current as of 19-OCT-2005

	1 year		2		3		4		5		6		7
	6Months 6M	6M	6M	6M	6M	6M	6M	6M	6M	6M	6M	6M	6M
Growing Stages	Seed / Star	t Up		Early Stag	ge	Exp	ansion (M	liddle)		La	ater/Mezza	nine	
VC Investments	Seed/Seri	es A		Series E	3		Series	C		Series D			
MOT Phase	Developme	ent I	D	evelopmeı	nt II		Production	on		In	dustrializa	ation	
i nasc	Develop. of trial	products	Develop.	of finishe	d products		Start of sa	ale	ass-prod	ucing, Exp	panding s	elling stag	e. Profitable
Transition of cap	oital supply												
Gov	vernmental capital	of researc	h and deve	lopment									
	Angel inves	sters											
		(CVC/ Strate	gic Partne	er businesse	es							
				Independ	lent VCs								
	Phased investme Seed: \$10K-\$250				Ver	nture loan	s / Ventu	re policies	financing	g(SBIC)			
	Series A: \$250K- Series B: \$5M-\$1	\$1.5M					ı	Normal ba	nk financi	ing(PO: P	urchase O	rder)	
	Series C: \$20M+									S	ecurity is:	sues	
EXIT								_M	&A				
								IV.			IPO		

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4 - Comparison of R&D Phase- Case studies

1. American firms

Electronics1

Universities, etc	Start-up	Early	Expansion	Later
Technology	Prototype			
Development	development	FP development	Initiation of selling	Mass production
	*	*	*	

Semicondutor1

Universities, etc	Start-up	Early	Expansion	Later
Technology	Prototype	Prototype		
Development	development	development	Initiation of selling	Mass production
	*	*	*	

Semicondutor2

Universities, etc	Start-up	Early	Expansion	Later
Technology	Prototype	Prototype		
Development	development	development	Initiation of selling	Mass production
*	*	*	*	

Electronics2

Universities, etc	Start-up	Early	Expansion	Later
Technology	Prototype	Prototype		
Development	development	development	Initiation of selling	Mass production
		*	*	

Pharmaceutical Company

Universities, etc	Start-up	Early	Expansion	Later
Technology Development	Prototype development	Prototype development	Initiation of selling	Mass production
	*			

2. Japanese firms SV (Silicon Valley) R&D Labs

Incubation Lab of Electronics Maker

Universities, etc	Start-up	Early	Expansion	Later
Technology	Prototype	Prototype		
Development	development	development	Initiation of selling	Mass production
	*	*	*	

Fundamental Technology Development Laboratory of Electronics Maker

Universities, etc	Start-up	Early	Expansion	Later
Technology Development	Prototype development	Prototype	Initiation of selling	
*	*	*		

Development Base of Industrial Management Solution Maker

Universities, etc	Start-up	Early	Expansion	Later
Technology	Prototype	Prototype		
Development	development	development	Initiation of selling	Mass production
	*	*		

Development Base of Consumer-electronics Maker

Universities, etc	Start-up	Early	Expansion	Later
Technology	Prototype	Prototype		
Development	development	development	Initiation of selling	Mass production
	*	*	*	

5 - Position Map

		Science	Development of technology & product		Commercialization	Industrization
Universities		Science	Research of fundamental technology			
University Ventures		Research of fundamental technology, Development of multipurpose technology	Development of application & products			
Development Ventures / UC VCs		Research of fundamental technology, Development of multipurpose technology	Development of application & products	Commercialization		
Established Companies	(R&D Ba	ases in SV)	Research of fundamental technology, Development of multipurpose technology	Development of application & products	Commercialization	
	_	arter of products & development in		Development of application & products	Commercialization	Industrization

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