Always Looking for the "New" New Thing: Silicon Valley Again*

Martin Kenney UC Davis

Berkeley Roundtable on the International Economy

&

ETLA (Research Institute on the Finnish Economy)

Outline of Talk

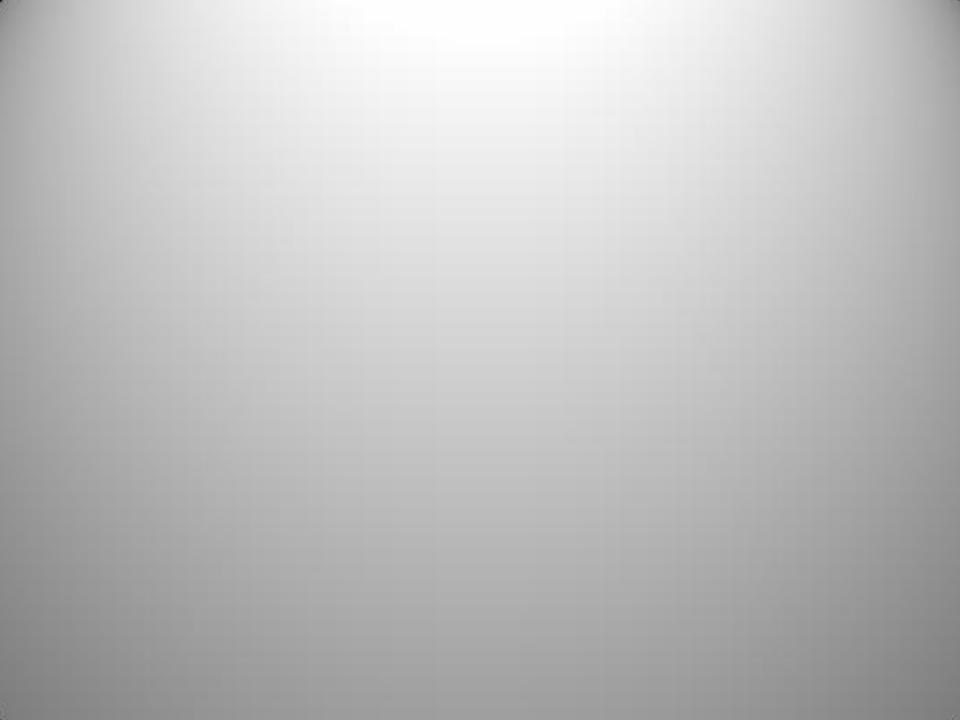
- California today
- The ecosystem
- The history of Silicon Valley
- Policy issues
- Considerations for the Nordic nations
- Conclusions

California Today

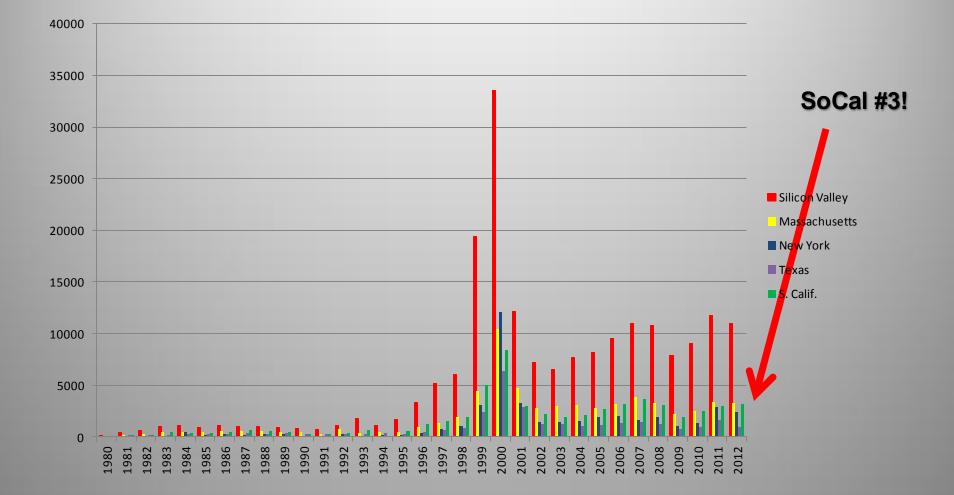
Global Top 50 Universities*

- CA: Stanford, UCB, CalTech, UCLA, UCSD, UCSF, UCSB, UCI, USC, UCD (10 total)
- UK (5 total)
- New York (4 total)

* Shanghai Jiaotong University AWRU 2012

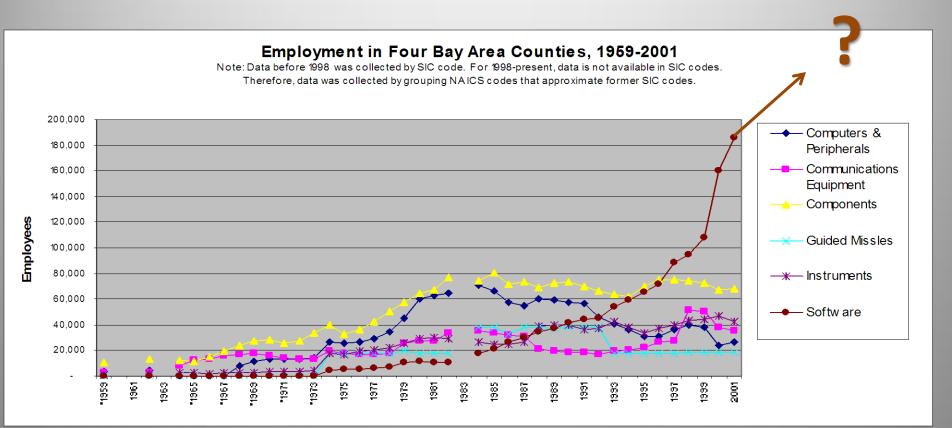


Venture Capital Disbursements by Region, 1980 - 2012



Source: VentureExpert 2011

Employment in Four Bay Area Counties, 1959-2001



© Source: Martin Kenney compilation from Census of Industry

IPOs per State, N = 1,700

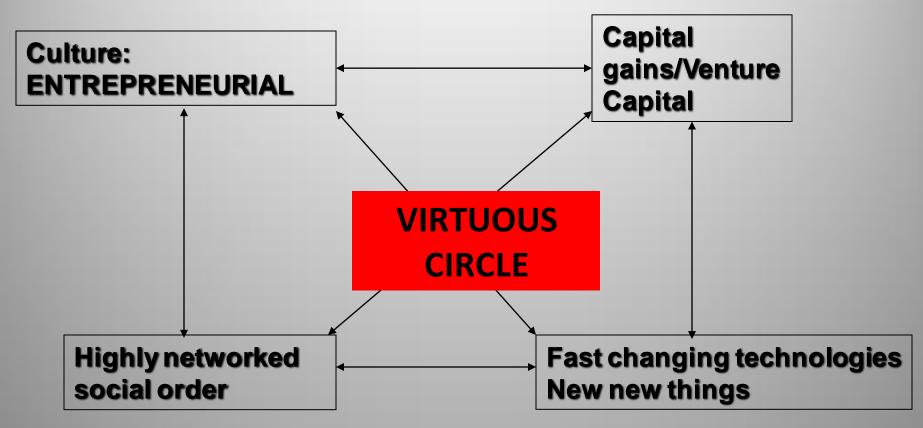
Table 8. Headquarters Locations of Venture Capital and Non-Venture Capital-Financed Emerging Growth Company IPOs, 1996–2010

Region	VC-Backed	Percent of All VC-Backed	Non-VC- Backed	Percent of All Non-VC- Backed	Percent of All IPOs
California	452	46.4	141	19.4	34.9
San Francisco Bay Area*	348	35.7	50	6.9	23.4
Mountain View	30	3.1	4	0.6	2.0
San Francisco	34	3.5	5	0.7	2.3
San Jose	31	3.2	14	1.9	2.6
Sunnyvale	47	4.8	4	0.6	3.0
San Diego County	47	4.8	14	1.9	3.6
Los Angeles County	24	2.5	35	4.8	3.5
Orange County	15	1.5	26	3.6	2.4
Massachusetts	106	10.9	34	4.7	8.2
New York	45	4.6	82	11.3	7.5
New York City	33	3.4	50	6.9	4.9
Texas	39	4.0	74	10.2	6.6
Florida	24	2.5	60	8.3	4.9
All Others	309	31.7	334	46.1	37.8
Total	975	100.0	725	100.0	100.0

It is no exaggeration to say it is the Bay Area, Boston & San Diego, and the Rest

The Ecosystem

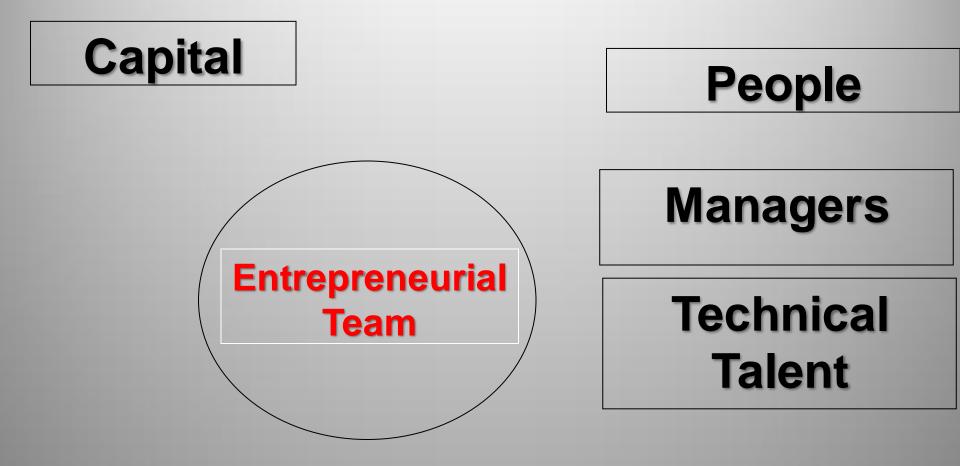
Dialectic and Coevolution of Culture, Economics, Technology and Social Networks



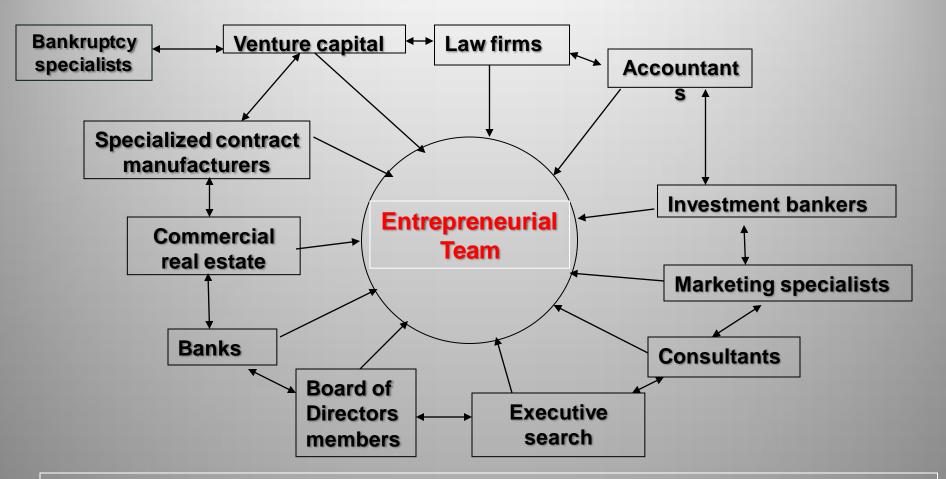
Culture, social structure, and economics are aligned

(c) Martin Kenney

Building a Silicon Valley Startup – Finding the Ingredients – need many and fast



An Ecosystem Specialized in Assisting Startups



Lower entry barriers, speed the firm creation process, facilitate rapid growth, allow concentration on product development.

(c) Martin Kenney

Technology or Opportunity

- Not too expensive to enter
 - Incumbents can't understand or react because of their bus model
- Redefines markets or captures next step in evolving market
 - 10x improvement or
 - Change the way things are done

 "Google it," the PC, Internet, local area networks, smart phone

Create new platforms or standards
 Cannibalize old technologies

The Culture

- What is the "new new thing?"
- Go for it/change the world
- Gadget and engineering-oriented environment
- Open networks -- everyone knows someone
- Performance-based trust
 Did and can you deliver?
 Fast paced, high turnover

Capital Gains Drive Entire System

History of Silicon Valley

No Single Explanation

- 1. Technology (though my vote is here)
- 2. Universities
- 3. Venture capital
- 4. Defense Department spending
- 5. Culture
- 6. Social capital from networking

Co-evolution of individuals, firms, organizations, and institutions

Putting the Silicon in Silicon Valley





New New Thing



New New Thing

And, of course



Now getting old?

Next?









And Don't Forget



50



Silicon Valley Leaders

- World's leading device maker -- Apple
- World's leading search company Google
- World's leading social media site Facebook
- World's leading chip maker Intel
- World's leading networking equipment maker – Cisco
- World's second largest software co. --Oracle

Policy Issues

Policy Issues

National Level:

- Early days massive DoD purchasing
- Early days difficult to enforce patent laws (now changed)
- Standard setting e.g., TCP/IP
- Massive and unremitting R&D expenditures (NIH, DoD, and NSF)
 - Merit-based evaluation
- Immigration (U.S. universities select the world's best)
- Liquid and fairly transparent equity markets
- Low capital gains tax & favorable stock option tax

Policy Issues



Fabulous Wealth, Grinding Poverty



Walmart

San Jose City Worker Evicting Homeless



Facebook Sean Parker wedding Big Sur \$3 million in damages





Silicon Valley Future
 Enormous amounts of capital available
 Venture capital and angels

- Great universities
 - Only rivaled by Boston
- More globally connected than ever
 Interesting new people keep coming
- Optimistic as digitization continues to offer new opportunities: mobile, social media, and cloud

Learnings

- Invest in university research
 - –Can immigrants get educated, stay and get great jobs?
- Liberalize bankruptcy laws
- Eliminate non-compete clauses in labor contracts
- Concentrate on strengths

Nice Growth Firms

- Many industries, but share following characteristics
 - 1. Barriers to entry not too large
 - 2. Use skilled, quality-oriented people
 - 3. High value-added
 - 4. Often started by an entrepreneur or a small team often are experienced personnel from a similar industry
 - 5. Not likely to grow to enormous size or will scale in linear fashion
 - 6. Not likely to grow large enough to offer stock to the public

Nice Growth Firm Benefits

- Knowledge-based industries
- High value-added
- Employment effects often small individually but significant in aggregate
- Can employ skilled craftspersons
- Often built on high quality production
 - Producing quality products is a social good
- Can be clustered or diverse

Conclusion

- If you have the deals the money will come, e.g., China and Israel
- How to encourage socially beneficial entrepreneurship
- The goal is to encourage people to actualize their creativity

Questions?

mfkenney@ucdavis.edu