

Silicon Valley

Birthplace of Breakthroughs



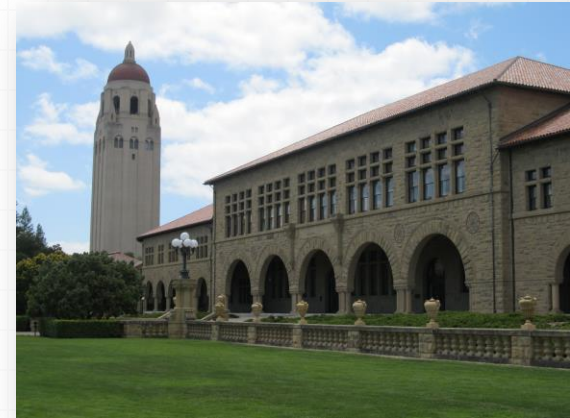
Silicon Valley: What and Where?

- Encompasses a region south of San Francisco in the Santa Clara Valley with 3.5/4 million people
- San Jose is the Valley's largest city with more than 900,00 residents (U.S. No. 10 largest)
- It is home to many of the world's largest technology corporations as well as thousands of small startups. The term originally referred to the region's large number of silicon chip (used in computer semiconductors) innovators and manufacturers, but eventually came to refer to all high-tech businesses in the area
- Despite the development of other high-tech economic centers throughout the U.S. and the world, Silicon Valley continues to be the leading hub for high-tech innovation and development, accounting for one-third of all of the venture capital investment in the United States



Stanford U.- The Valley's Hub

- o Stanford University (in Palo Alto), its affiliates, and graduates have played a major role in Silicon Valley's development
- o During the 1940s and 1950s, Frederick Terman, as Stanford's dean of engineering and provost, encouraged faculty and graduates to start their own companies. He is credited with nurturing Hewlett-Packard and other high-tech firms, until what would become Silicon Valley grew up around the Stanford campus.
- o During 1955-85, solid state technology research and development at Stanford University followed three waves of industrial innovation made possible by support from private corporations, mainly Bell Telephone Laboratories, Shockley Semiconductor, Fairchild Semiconductor, and Xerox PARC.
- o In 1969, the Stanford Research Institute operated one of the four original nodes that comprised ARPANET, predecessor to the Internet
- o It was in Silicon Valley that the silicon-based integrated circuit, the microprocessor, the microcomputer, among other key technologies, were developed.
- o The region employs about a quarter of a million information technology workers. Silicon Valley was formed as a milieu of innovations by the convergence on one site of new technological knowledge; a large pool of skilled engineers and scientists from major universities in the area; generous funding from an assured market with the Defense Department; the development of an efficient network of venture capital firms; and, in the very early stage, the institutional leadership of Stanford University.



Technology HQ in Silicon Valley

(Top 25 includes the following)

- o Apple
- o Hewlett-Packard
- o Intel
- o Google
- o Cisco Systems
- o Oracle
- o eBay
- o Facebook
- o SanDisk
- o Yahoo
- o Adobe Systems
- o Netflix



San Francisco's Added Muscle

