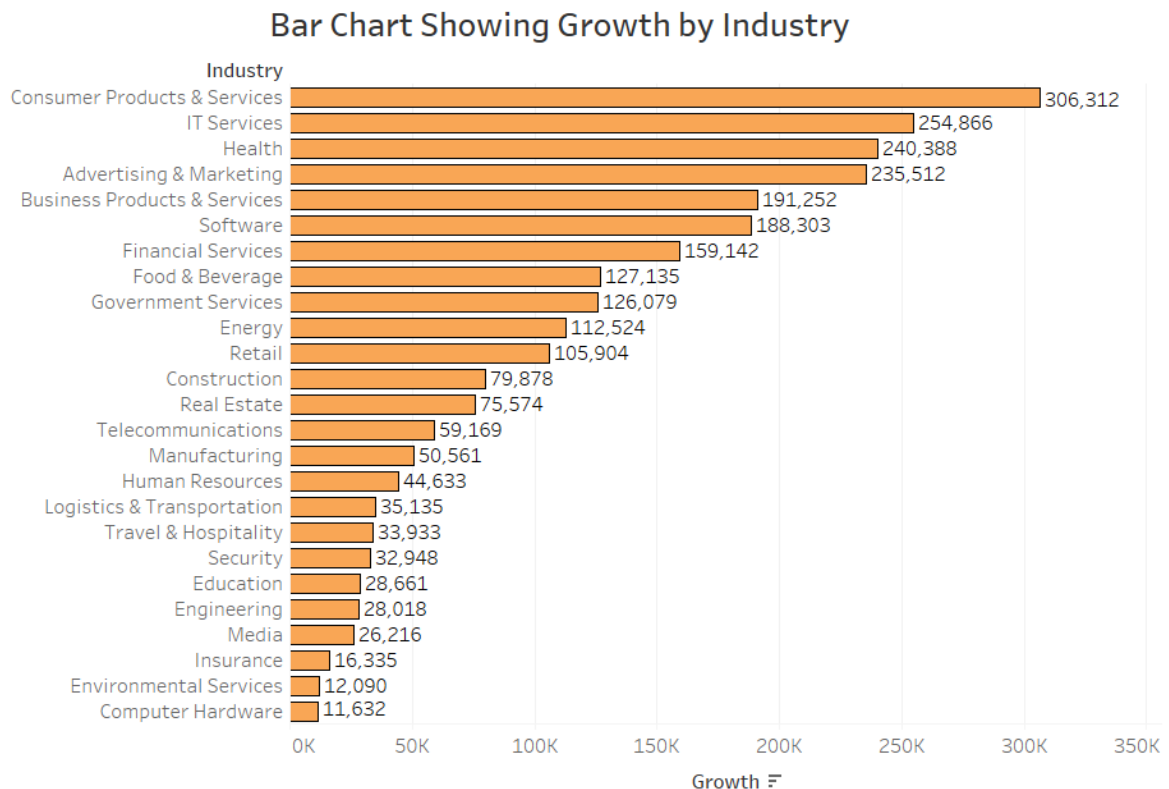


## Tableau Data Visualisation III - T28 - Task 2 - 2014 Inc. 5000 Companies dataset.

### Q1. Which industries saw the most growth?

The industries which saw the most growth are in the bar chart below.



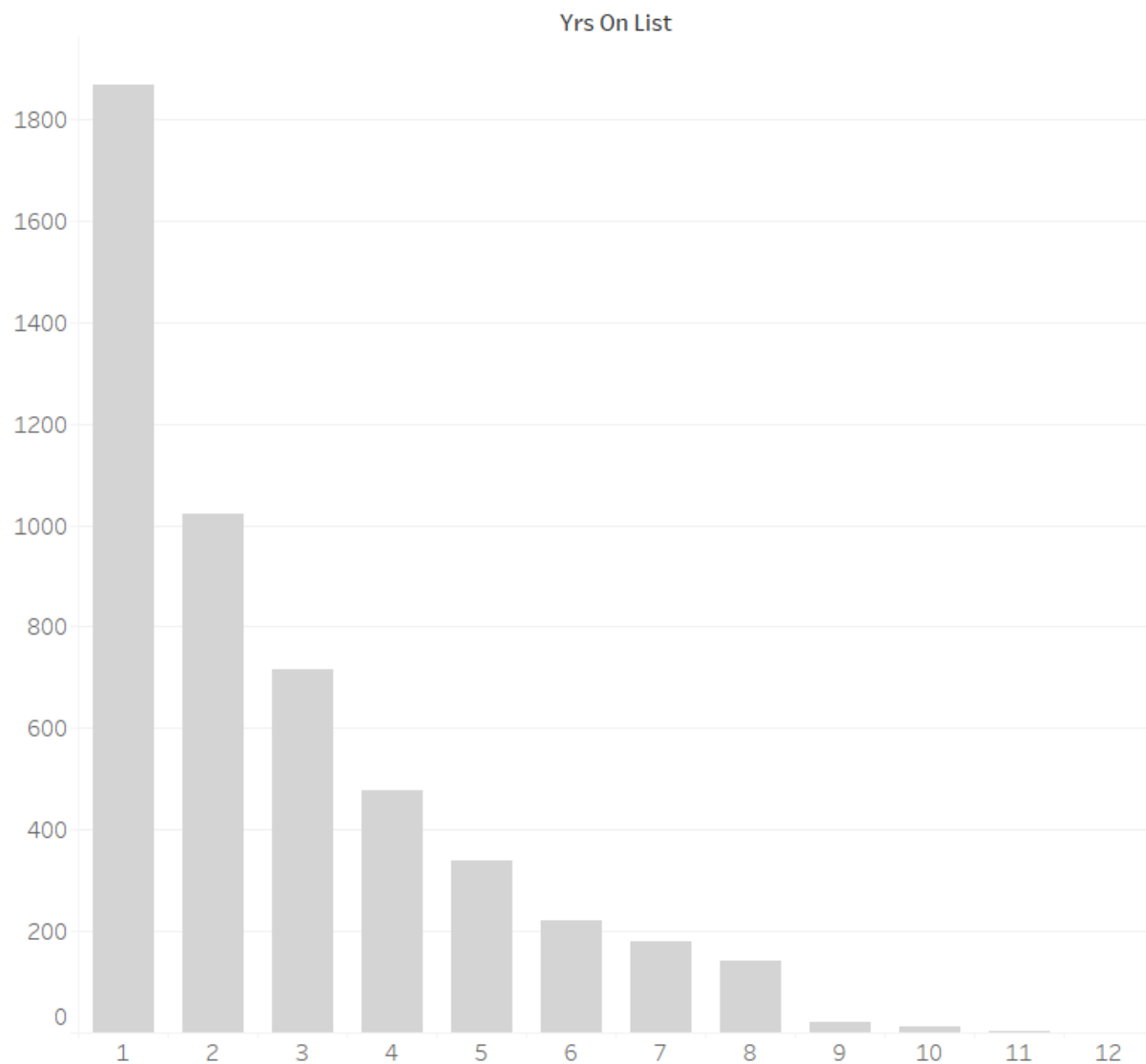
The Top 5 growth industries are:

1. Consumer Products
2. IT Services
3. Health
4. Advertising and Marketing
5. Business Products & Software

### Q2. Do companies that have been on this list longer have a higher chance of appearing again in this list?

Companies that have been on this list longer do not have a higher chance of appearing in the list, in fact, as shown in the below bar chart of companies and the number of years they've been on the list, most companies have been on the list only a few years, and the majority of companies are new entrants onto this list and have only been on it for a year.

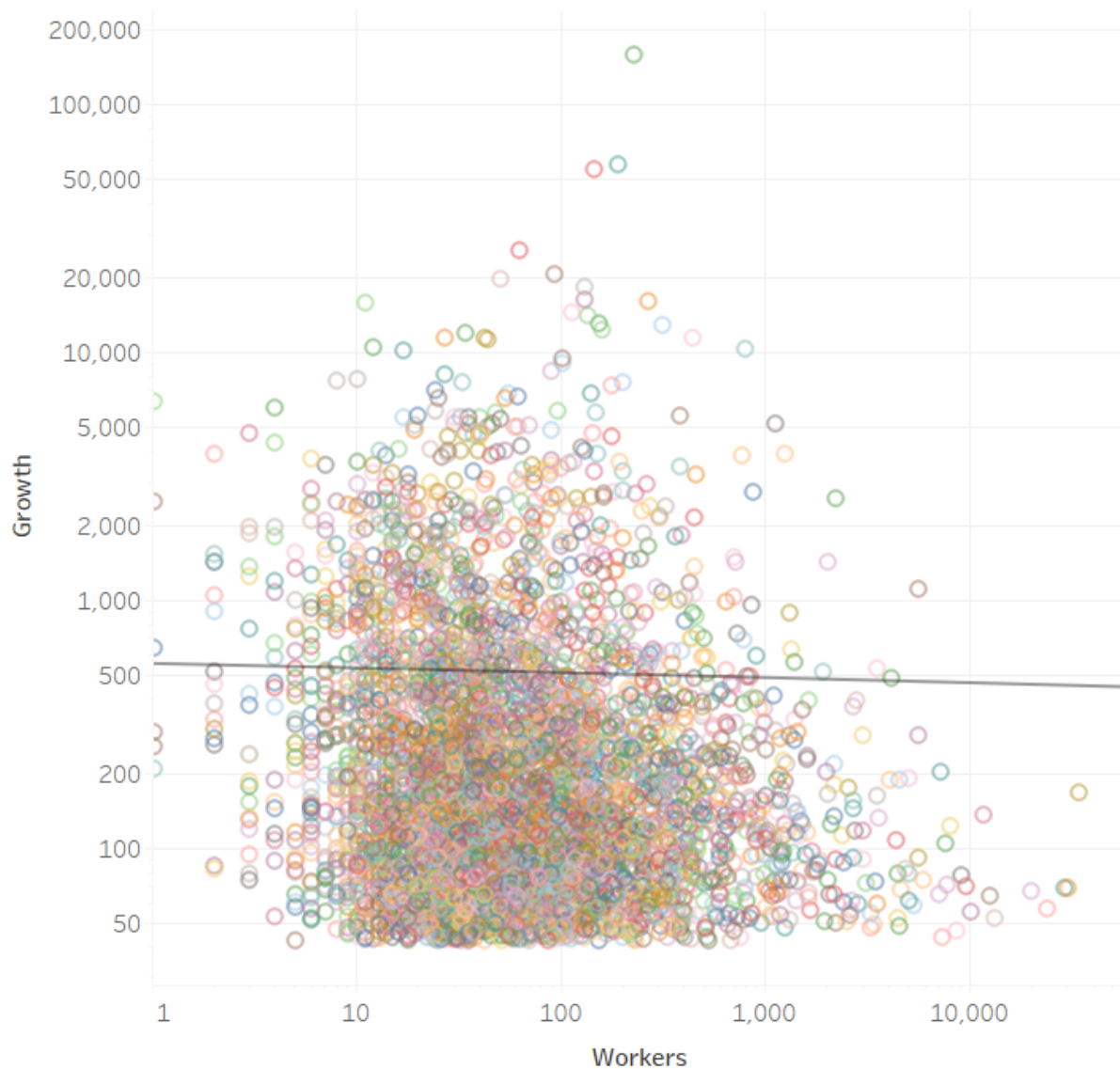
Chart Shows Number of Companies by the Number of Years on the List



**Q3. Does the number of workers in the company affect the growth of the company?**

The trend line shows that as the number of workers goes up growth tends slightly lower. Tableau suggests that the P-Value is 0.73882 and the trend line equation is  $\text{Growth} = -9.94 \times \ln(\text{Workers}) + 557.732$ .

## Scatterplot Chart Showing Company Growth Against the Number of Workers



**P-value: 0.73882**

**Equation:  $\text{Growth} = -9.94325 \cdot \ln(\text{Workers}) + 557.732$**

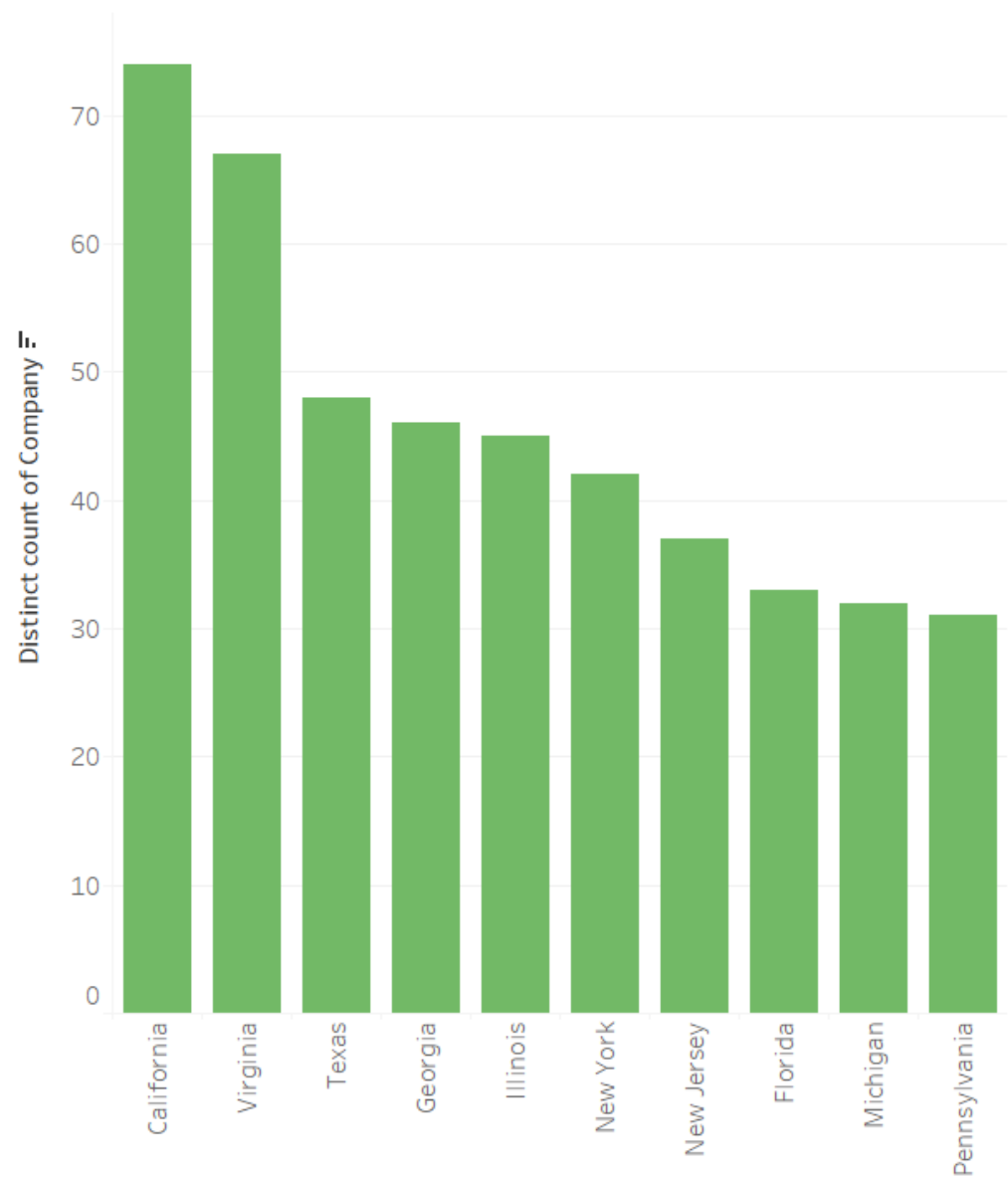
### **Coefficients**

Term	Value	StdErr	t-value	p-value
$\ln(\text{Workers})$	-9.94325	29.8206	-0.333435	0.73882
intercept	557.732	127.648	4.36929	< 0.0001

Q4. Which state can you find most of the IT companies in?

California is the state with the most IT companies

Bar Chart Showing the Top 10 States for the Number of IT Companies



Packed Bubble Chart Showing the Top 10 States for the Number of IT Companies

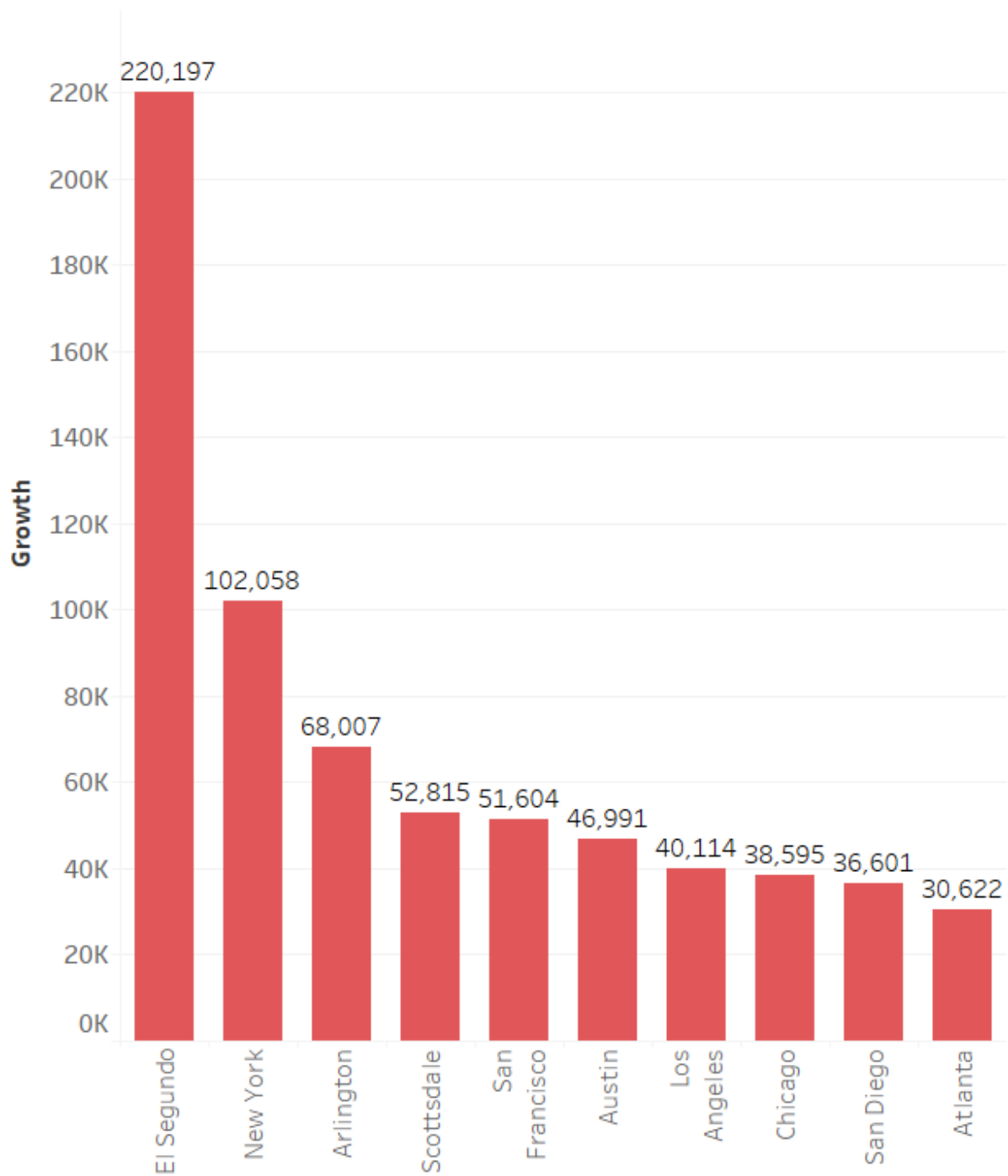


**Q5. Which cities have seen the most growth?**

**The top 10 growth cities are shown the bar chart below:**

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Bar Chart Showing the Top 10 Cities by Growth



The top 5 cities with the most growth are:

**El Segundo**

**New York**

**Arlington**

**Scottsdale**

**San Francisco**