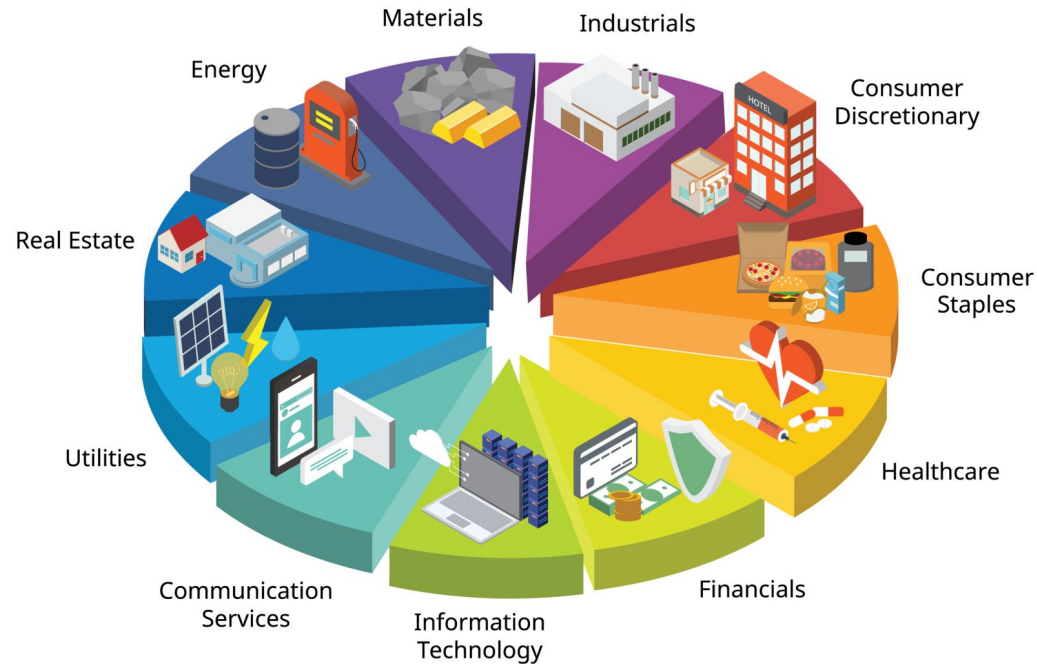


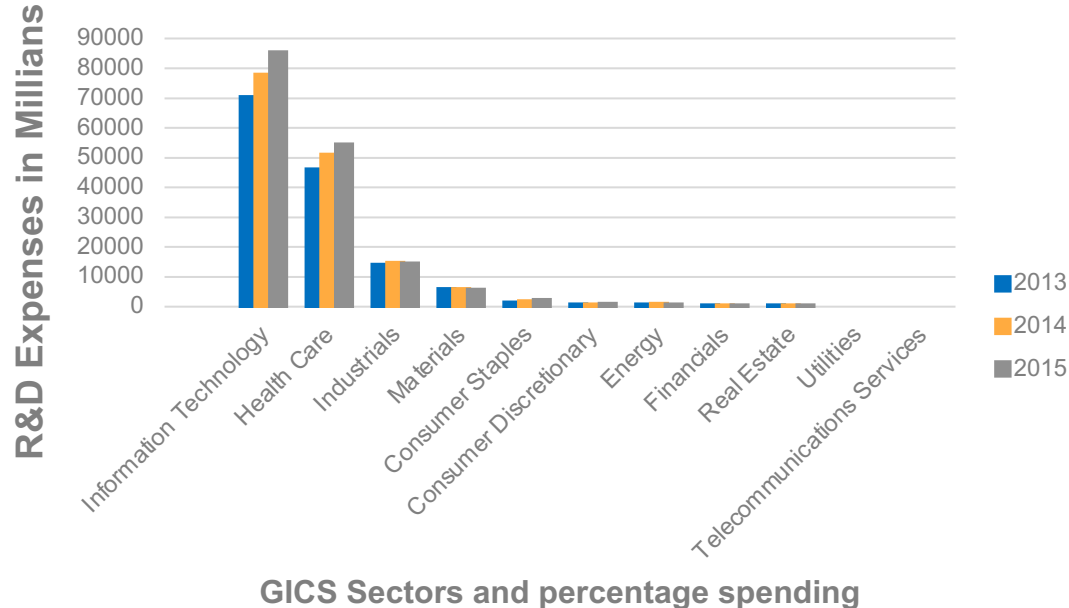
# ANALYSE NYSE DATA

## Stock Market Sectors



# Which GICS Sectors spent more on Research & Development from 2013 to 2015?

## GICS Sectors spent on R&D from 2013 - 2015



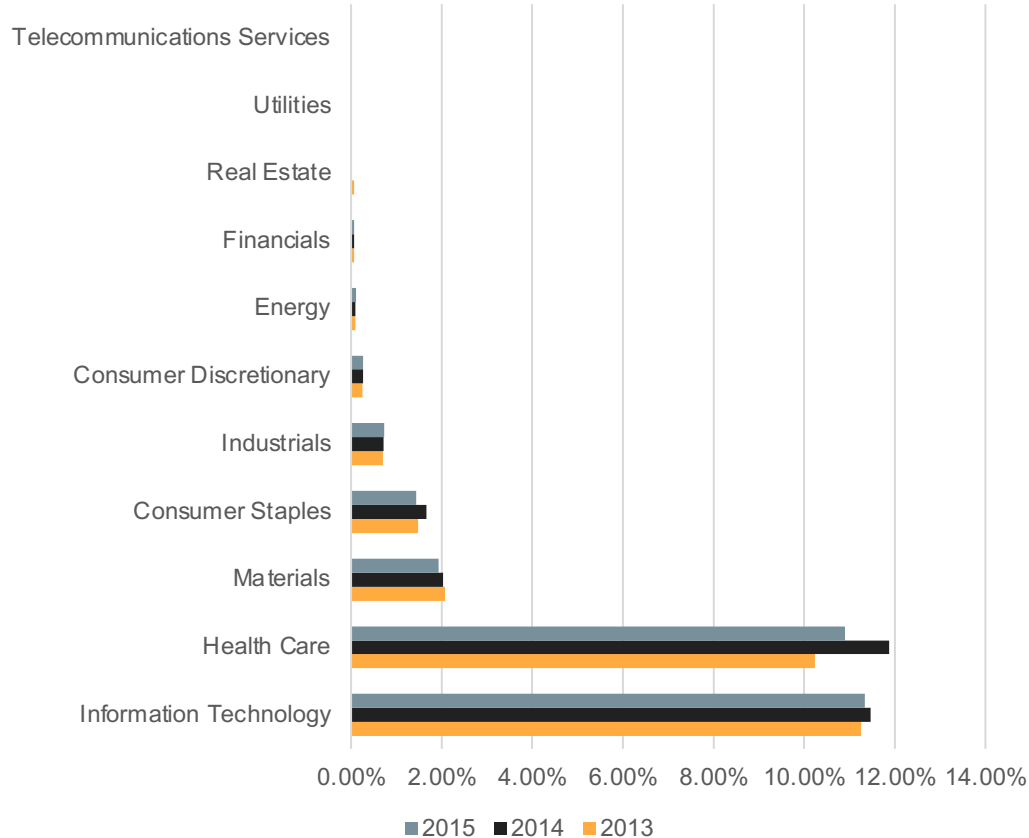
**Research and Development (R&D)** is the main driver of innovation in many enterprises. R&D expenditure and intensity are two of the key indicator used to monitor resources, especially in science and technology.

IT sector has the highest R&D expenditure of 11.26% to 11.34% on average or more than 70 billion in R&D from 2013 to 2015. Followed by Health Care in the second place. Health Care has R&D expenditure of 10.24% to 11.88% on average, or more than 50 billion from 2013 to 2015.

However, if we look at the standard deviation given, Health Care has a number higher than its average number; this suggests that its total revenues are far from its spending.

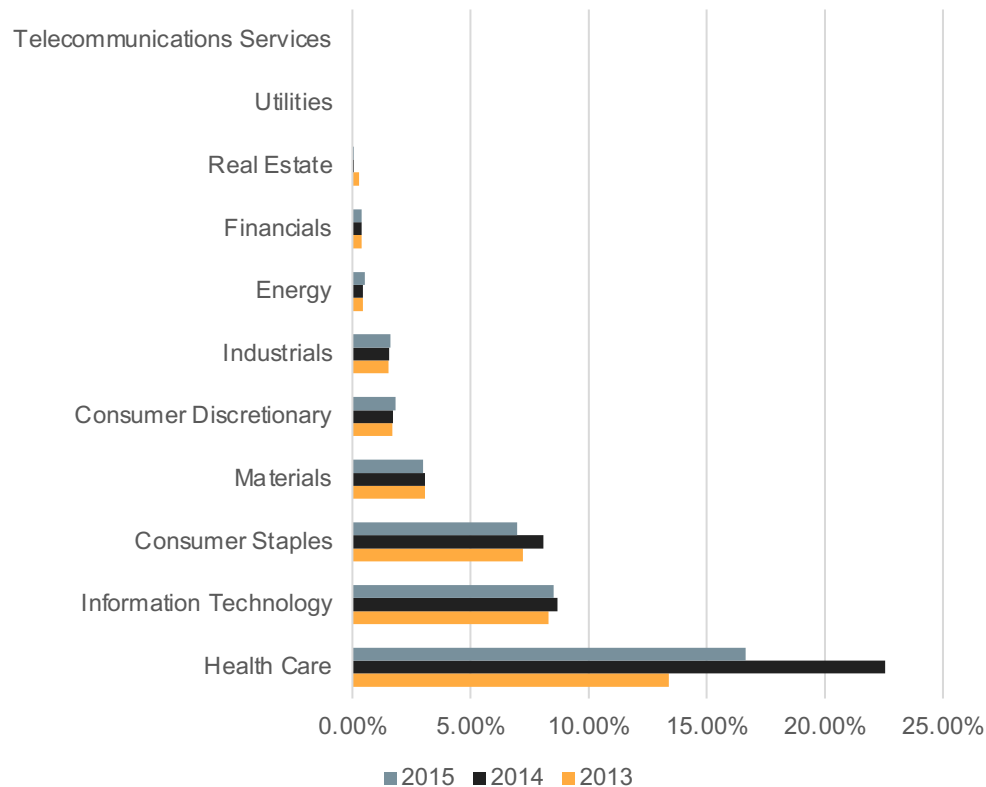
Although it is not as effective when looking at companies in different industries because different industries place different values on R&D. Other sectors have a starting to recognize the importance of R&D, we can see from Industrial at 13 to 14 billion, Material at 5 billion, even Real Estate has a good start at 65 billion, respectively. Their average R&D Percentage or expenditure signals that they are close to each other, at 0.01% to 2%, the highest, but not as highest as IT and Health Care. While Industry in Utilities and Telecommunication Services has no spending on R&D, they are not the lowest in total revenue.

## Average of R&D Percentage (expenditure)



	Average of R&D Percentage		
	2013	2014	2015
Information Technology	11.26%	11.47%	11.34%
Health Care	10.24%	11.88%	10.90%
Materials	2.07%	2.02%	1.93%
Consumer Staples	1.47%	1.66%	1.44%
Industrials	0.70%	0.72%	0.73%
Consumer Discretionary	0.25%	0.26%	0.27%
Energy	0.09%	0.09%	0.11%
Financials	0.06%	0.06%	0.06%
Real Estate	0.07%	0.01%	0.01%
Utilities	0.00%	0.00%	0.00%
Telecommunications Services	0.00%	0.00%	0.00%

## Standard Deviation of R&D Percentage (expenditure)



	Standard Dev. of R&D Percentage		
	2013	2014	2015
Health Care	13.40%	22.55%	16.63%
Information Technology	8.29%	8.69%	8.52%
Consumer Staples	7.21%	8.09%	6.98%
Materials	3.08%	3.06%	3.00%
Consumer Discretionary	1.70%	1.73%	1.83%
Industrials	1.53%	1.55%	1.60%
Energy	0.45%	0.45%	0.54%
Financials	0.40%	0.39%	0.40%
Real Estate	0.29%	0.07%	0.07%
Utilities	0.00%	0.00%	0.00%
Telecommunications Services	0.00%	0.00%	0.00%