How does the cost of goods compare for all the GICS sectors?

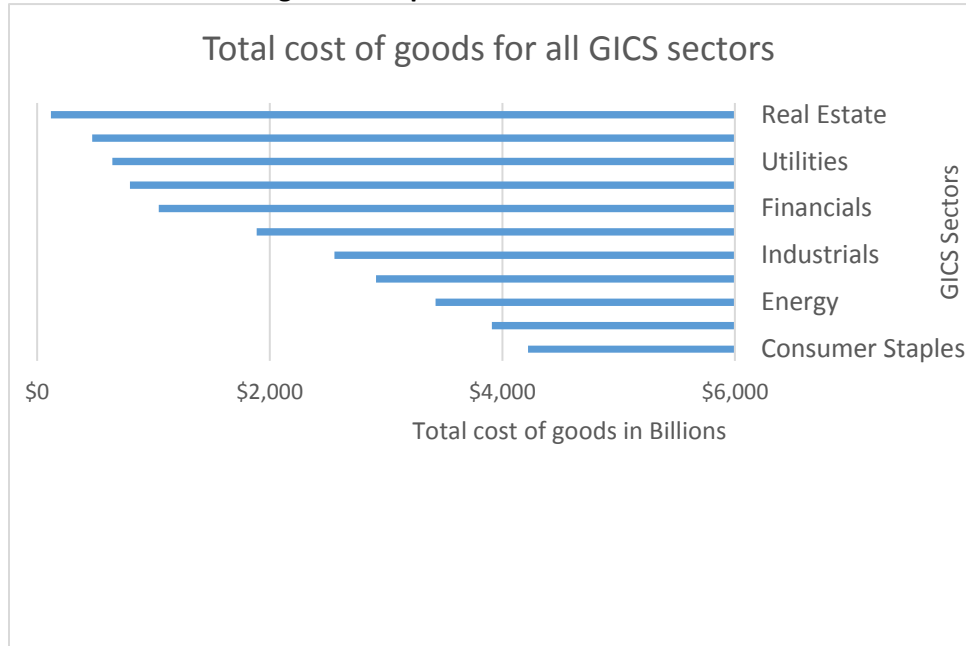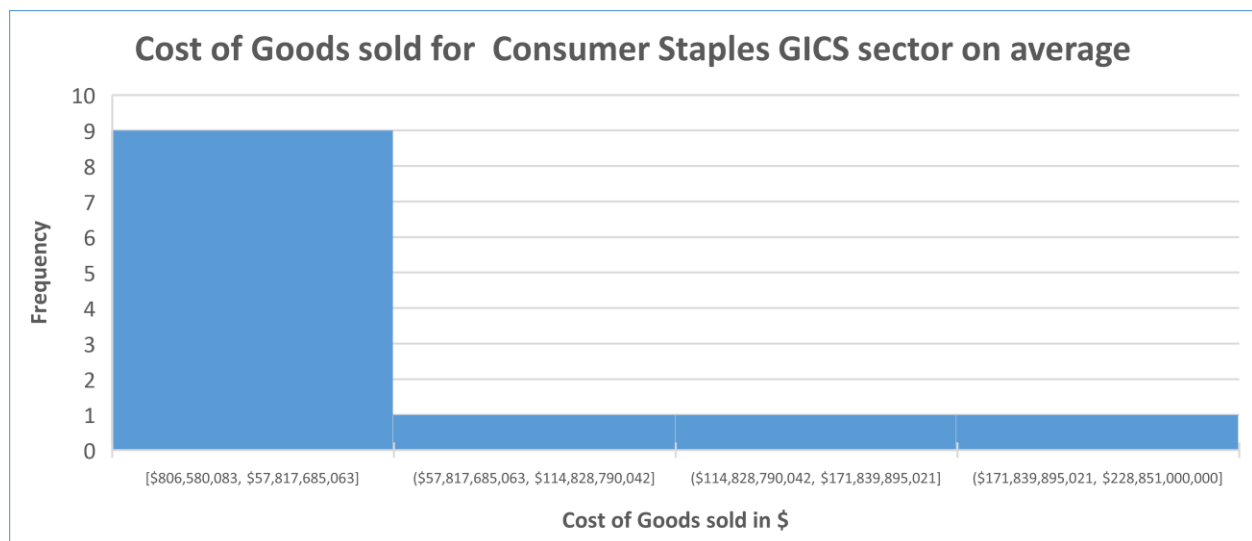## Total cost of goods for all GICS sectors

The GICS sector with the highest Cost of Goods Sold is the Consumer Stables and the GICS with the lowest Cost of Goods Sold is the Real Estate GICS Sector. This is because the Sum of COGS for the Consumer stables is slightly above $ 4,000 billion and that of Real Estate GICS Sector is far below $2,000 billion. In addition, the bar chart indicates that the column for Consumer Staples is the tallest while column for Real Estate is the shortest.

Does the Consumer Staples GICS Sector has similar expenditure levels for cost of goods sold as the Real Estate GICS Sector?

 The mean of total cost of goods of sub industries categorized under Consumer Staples GICS Sector ($48,865,471,333) was higher compared to the mean of the total cost of goods of sub industries categorized under the Real Estate GICS Sector ($1,748,596,686). Hypermarkets & Super Centers GICS Sub Industry has the highest cost of goods on average than all GICS Sub Industries categorized under Consumer Staples GICS Sector. On the other hand, the Real Estate Services GICS Sub Industry has the highest cost of goods on average than all GICS Sub Industries categorized under Real Estate GICS Sector.

Cost of Goods Sold for the Real Estate GICS Sector on average
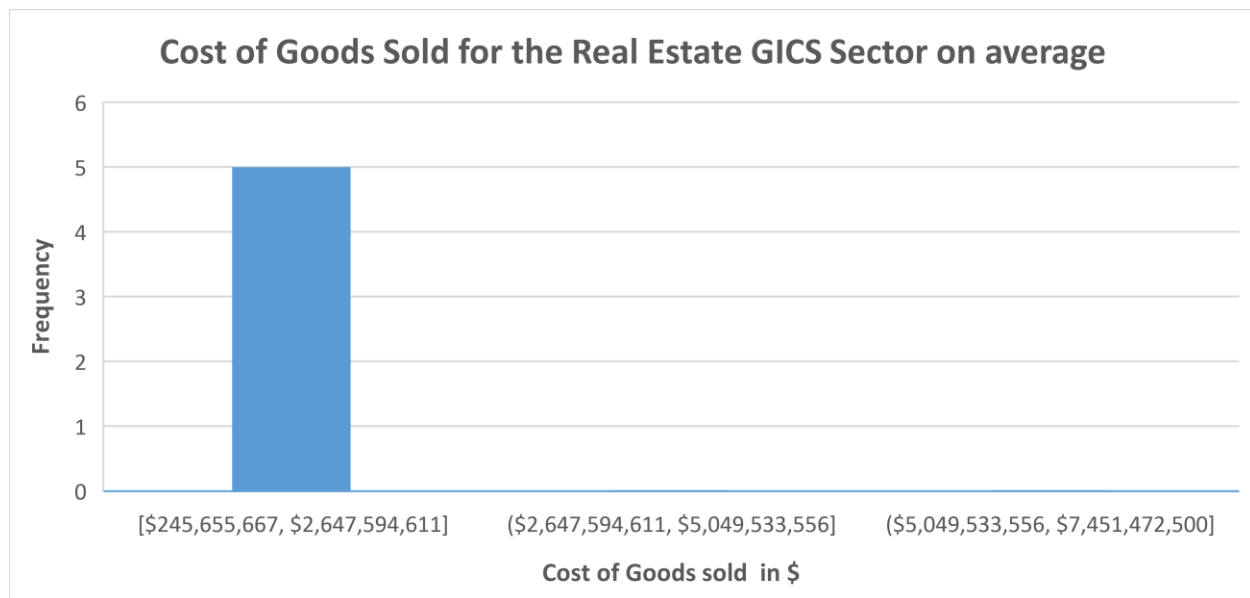
The median is the middle value separating the higher half of the data sample and the lower half of the data sample. The median is advantageous in describing the data because is affected by the extremely large or small values in the data set. The median for the Consumer Staples GICS sector is $24,701,339,469 while that of the Real Estate GICS sector $535,047,792. Therefore this indicates the typical value of the cost of goods sold on average of for the sub industries categorized under the Consumer Staples GICS sector is $24,701,339,469 while the typical value of the sub industries under the Real Estate GICS sector is $535,047,792. The cost of goods on average for the sub industries categorized under the Consumer Staples is therefore generally higher compared to that of the sub industries under the Real Estate GICS sector.

Both distribution are right skewed. This is because from the distribution of the Cost of goods sold for the Consumer Staples on average the, mean ($48,865,471,333) is greater than the median ($24,701,339,469). This indicates that the distribution is right skewed. On the other hand, for the histogram of the cost of goods sold for the Real Estate GICS sector, the mean ($1,748,596,686) is greater than the median ($535,047,792). This also shows a right skewed distribution.

The standard deviation of the average of cost of goods for Consumer Staples GICS Sector is $67,578,063,953 while the cost of the Real Estate GICS Sector has a standard deviation of average of cost of goods for the Real estate GICS Sector is $2,820,916,234. This indicates that the typical point of the cost of goods sold for the Consumer Staples GICS sector is larger compared to the typical point from the average for Real Estate GICS sector on average. From these values we can see that the Consumer Staples GICS Sector is has more spread than that of the Real Estate GICS Sector. Hence, the cost of the goods for the Real Estate GICS sector is more consistent compared to the cost of goods of Consumer Staples GICS sector.

The range indicates the difference between the highest and lowest values and is used to indicate the consistency of the data. In the range of the Real Estate GICS sector is $7,205,816,833 while the range of the Consumer Staples GICS sector is $228,044,419,917. Therefore the difference between the highest and the lowest cost of goods for the sub industries categorized under Consumer Staples GICS sector is larger than the difference between the highest and the lowest cost of goods for the sub industries categorized under the Real Estate GICS sector.