# NYSE Analysis

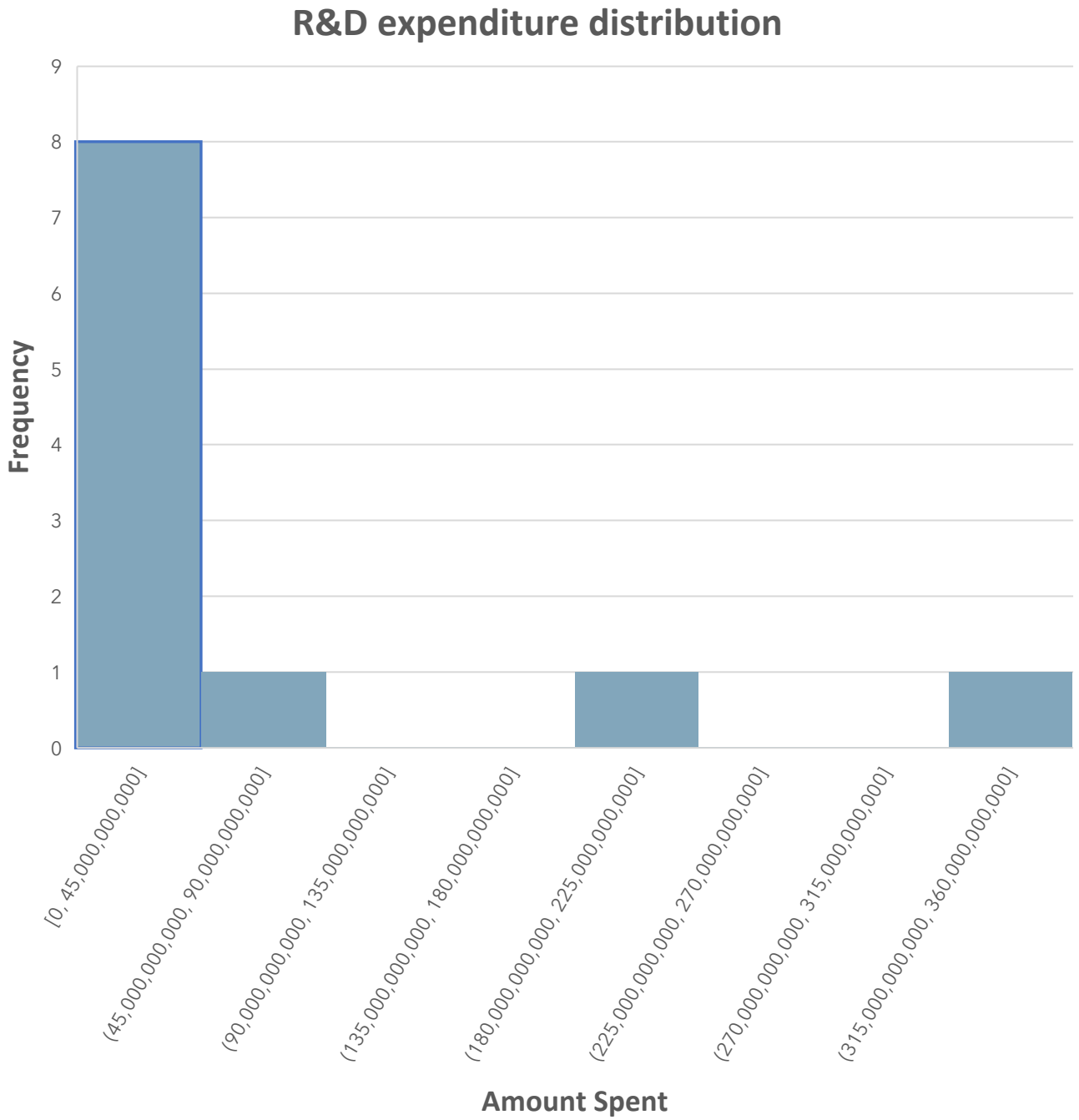
Udacity BAND Project 2

# Research Objectives

- Which GICS sector spends the most on R&D and what percentage does it take from the total revenue (R&D/Total Revenue), and how far is it from the GICS R&D spend average.

Labeled by color: P1-P2-P3

# Findings

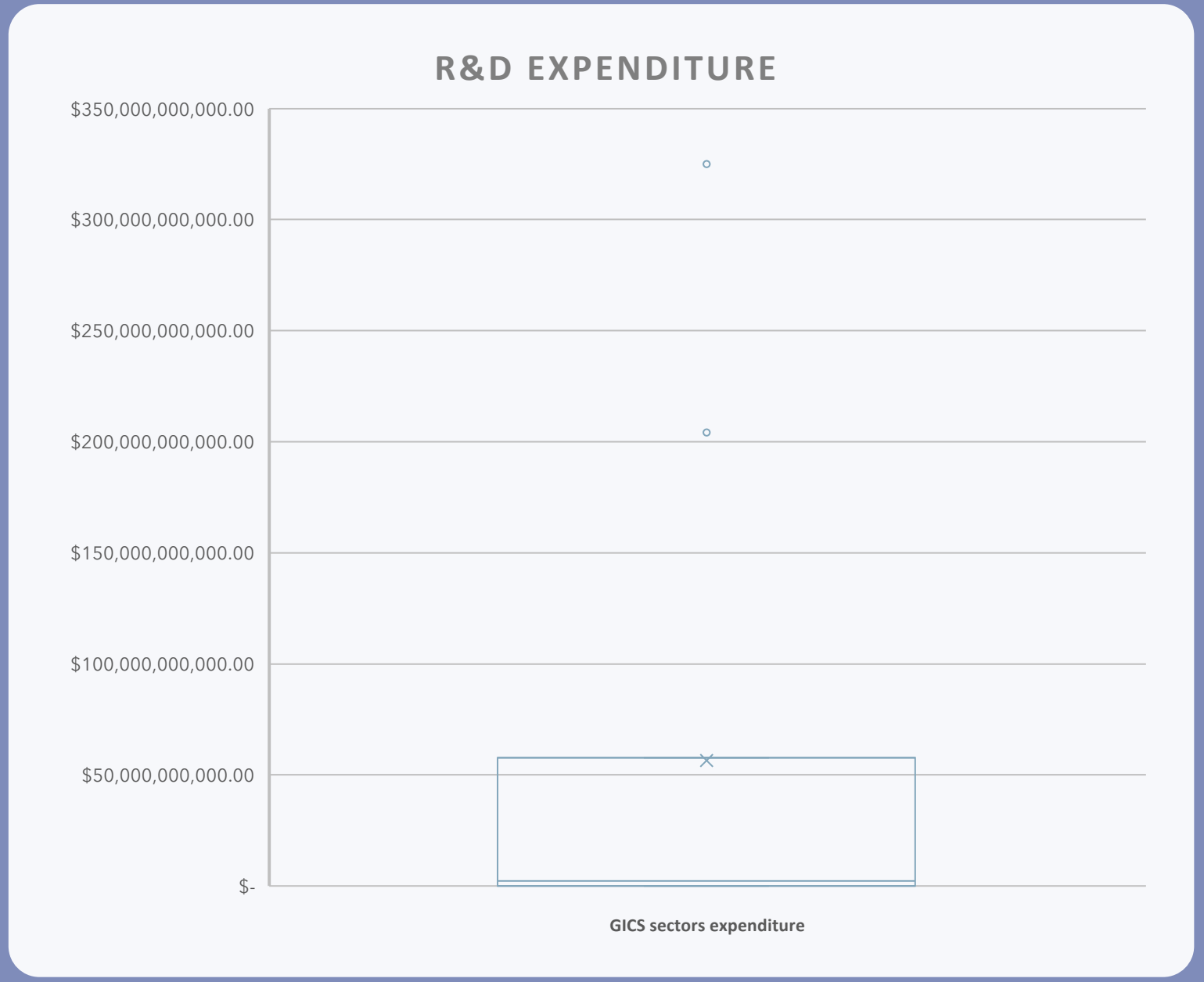



# Findings

- This histogram shows the Total R&D expenditure across all GICS sectors, we can see majority of the values lies on the first range (0-45B).
- It is clearly asymmetric distribution skewness= 2.1 (positive skewness).
- The standard deviation shows a high number (107.75B$), which indicates a high variability in the R&D expenditure across the GICS sectors.

# Findings (Cont.)

- This box plot shows were the mean is larger than the median ($56,496,562,909 > $2,387,148,000). This also means that the majority of the sample spends much less than the higher minority.



# More Findings

| Question Part | Question | Result | | |
|---|---|---|---|---|
| P1 | Highest R&D expenditure Sector | Information Technology | | $ 325,038,637,000 |
| P2 | IT expenditure/total revenue | 9% | | |
| P3 | whole R&D average expenditure | $ | 56,496,562,909 | |
| | How far is it? =IT expenditure/avg | 575.3% | | the IT expenditures is 575.3% higher than the avg. |