



Introduction

- Purpose of the Report: To analyze the impact of significant upheavals on Egypt's economy, focusing on specific economic sectors and overall GDP.
- Events Analyzed: 2011 and 2013 Revolutions, and the 2020 COVID-19 Pandemic.
- Importance of Study: This report aims to illuminate the relationship between different upheavals and Egypt's economic path.



Research Question:

Did significant political or global affect various economic sectors and GDP in Egypt?

Hypothesis:

Null Hypothesis (Ho):

There is no association between the occurrence of major upheavals (2011 revolution, 2013 revolution, 2020 pandemic) and the variations in Egypt's Gross Domestic Product (GDP)

Alternative Hypothesis (H1):

There is an association between the occurrence of major upheavals (2011 revolution, 2013 revolution, 2020 pandemic) and the variations in Egypt's Gross Domestic Product (GDP)

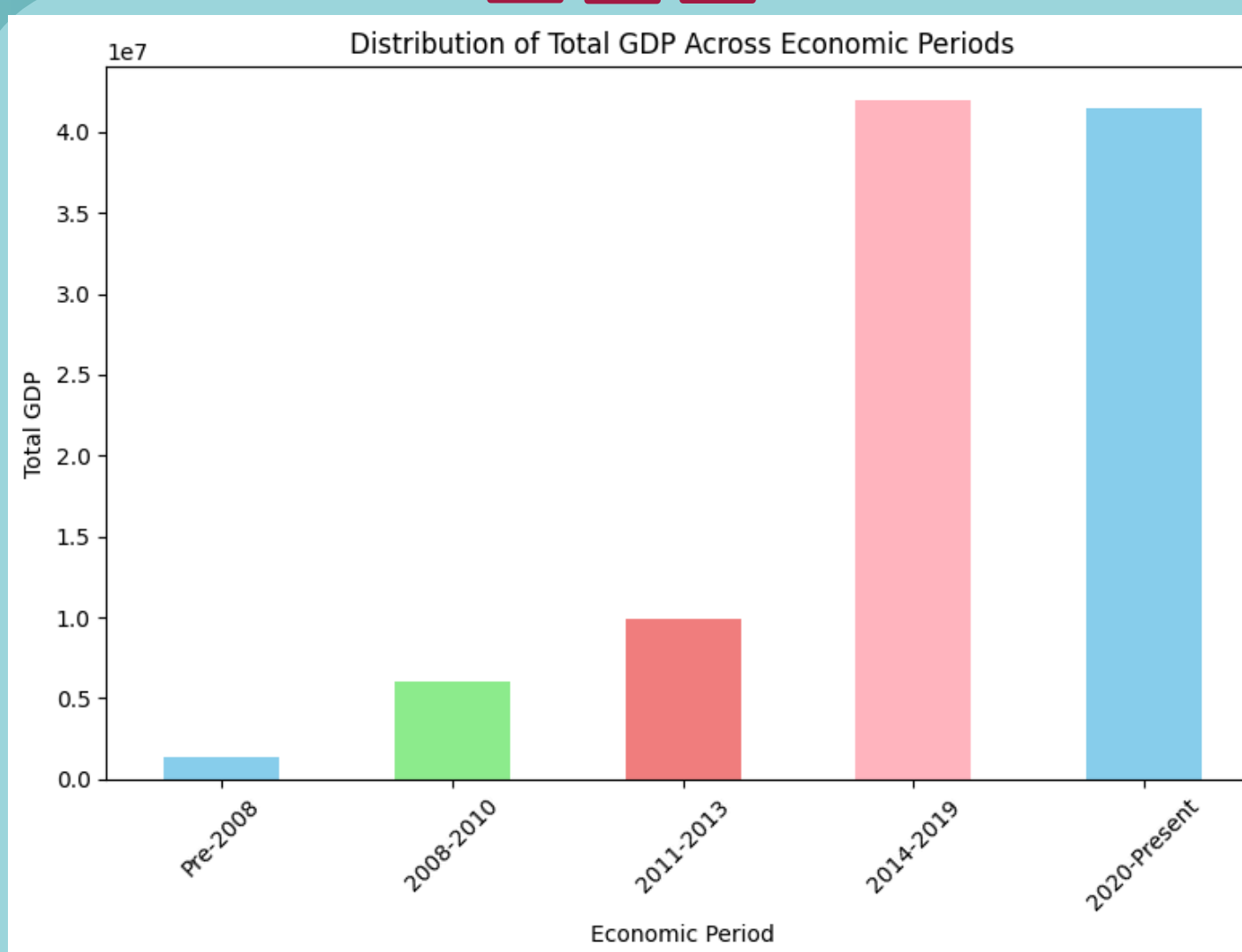
Methodology

Data Collection: Data from the Egyptian Ministry of Planning and Economic Development.

Data Cleaning: Steps taken to clean the data including outlier removal and handling missing values.

Data Analysis and Visualization: Descriptive statistics, observing trends and visual data representation.

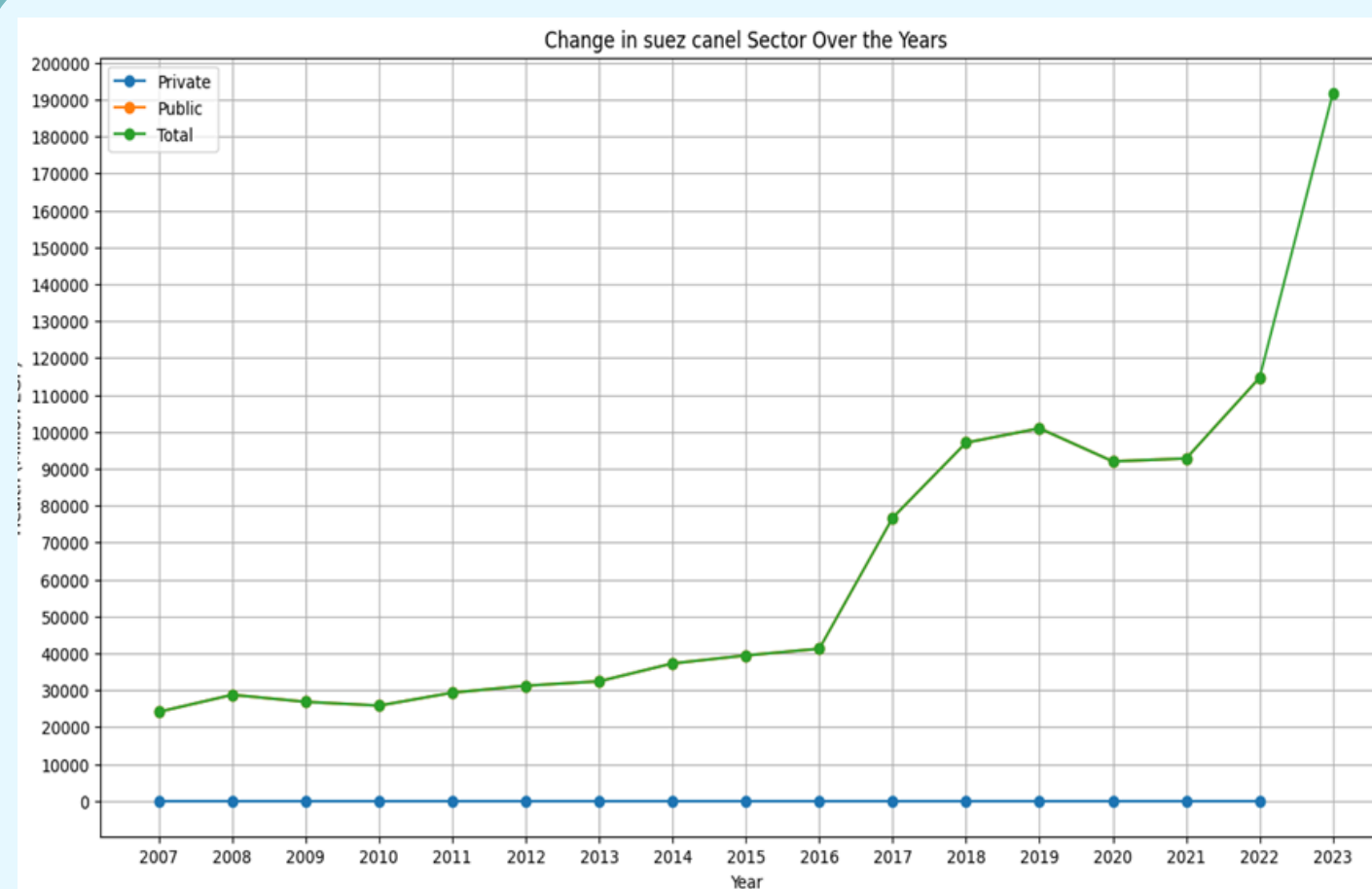
Hypothesis Testing: Chi-squared test for hypothesis testing and p-value.



The chi-squared test yielded a statistically significant p-value of $5.5794647180362105e-05$.

Conclusion

- This study investigated the link between major upheavals (global and national) and their impact on Egypt's economy GDP.
- It focused on three events: 2011 revolution, 2013 revolution, and the 2020 pandemic.
- The analysis used a chi-squared test to assess the relationship between upheavals and GDP variations.
- The test result ($p\text{-value} < 0.05$) suggests a statistically significant association between upheavals and changes in GDP.



Sector wise Analysis of Suez Canal

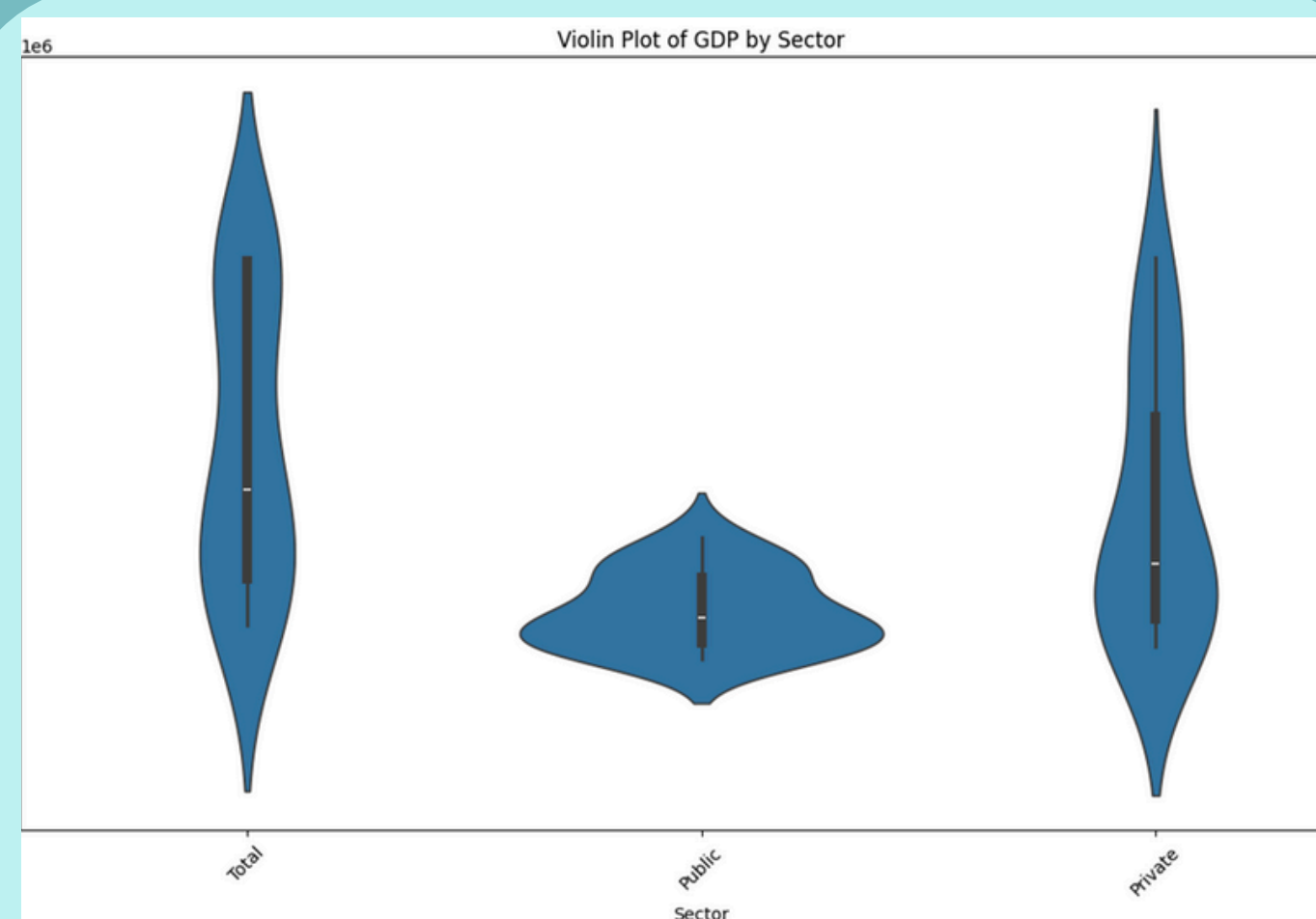


Figure: It shows that the private sector contributes more to the total GDP