

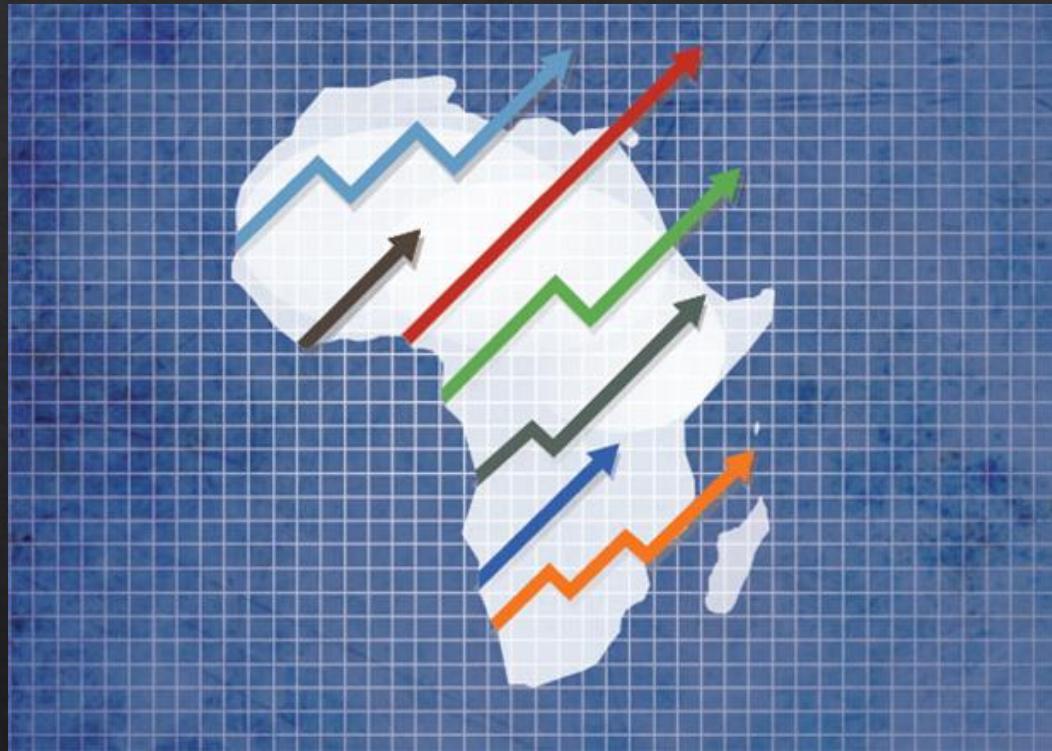
The World Needs Our Support!

# Sub-Saharan Africa 2019



# An Overview Of The Analysis

- 22 Countries
- Includes Africa's largest crude oil exporter
- Large gap in economies



# Methodology Used For The Analysis

- Python code
- Cleaning the data
- Imputing Missing value
- Finding outliers



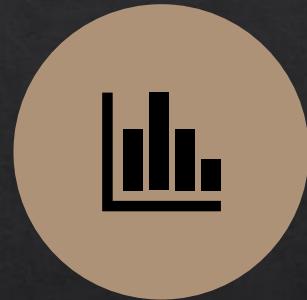
# Defined ways for Imputing Missing Values



IDENTIFYING  
MISSING VALUES



USING MEAN &  
MEDIAN TO FILL IN  
MISSING VALUES



UTILIZING  
HISTORICAL DATA

# Data Analysis On The Two Important Countries

# Angola

- Growth - 0.15%
  - 122B USD
  - 4170 USD per capita
  - Agriculture



# Nigeria

- 48% of region GDP
  - Oil exports
  - 0.8% growth
  - \$2000 (approx)



# Data Analysis- GDP growth



Guinea:

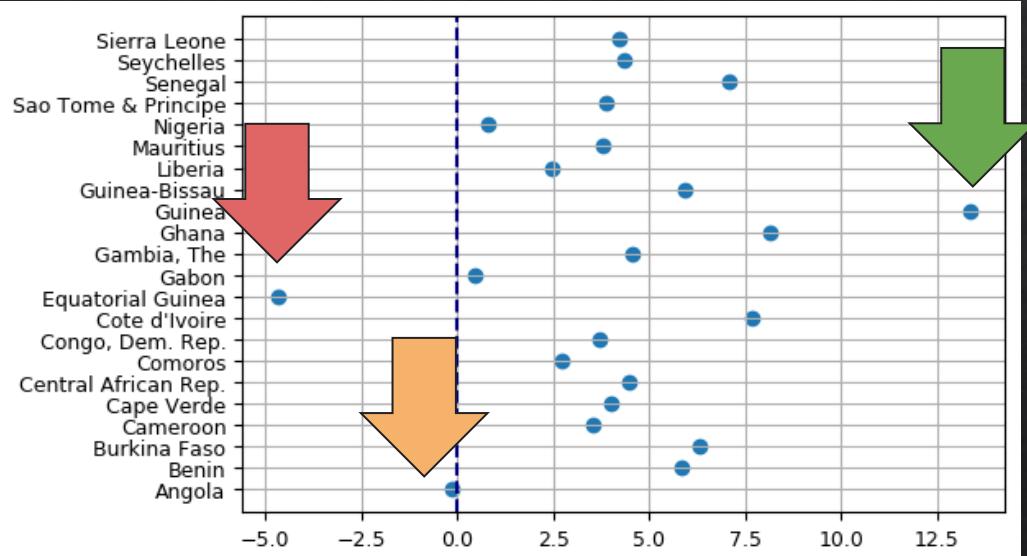
- Mining sector.
- Diversification.

Equatorial Guinea:

- Oil dependency.
- Oil prices decreased.
- Weak financial management (corruption).
- No diversification.

Angola:

- Low prices.
- Low production.
- Private sector growth model.
- Macroeconomic stability.



# Data Analysis- GDP Performance



Equatorial Guinea:

- Corruption

Seychelles:

- Tourism

Mauritius:

- Construction, Tourism, and Services.

Nigeria:

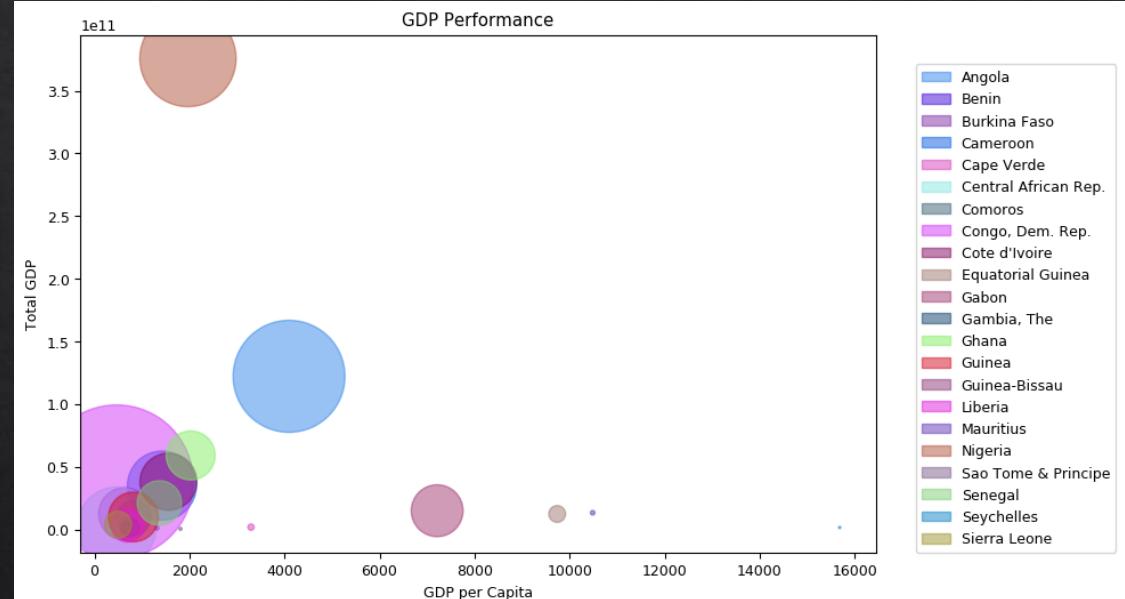
- Oil dependency.
- Weakness of agriculture sector.
- Inflation.
- Employment.

Angola:

- Low diversification.

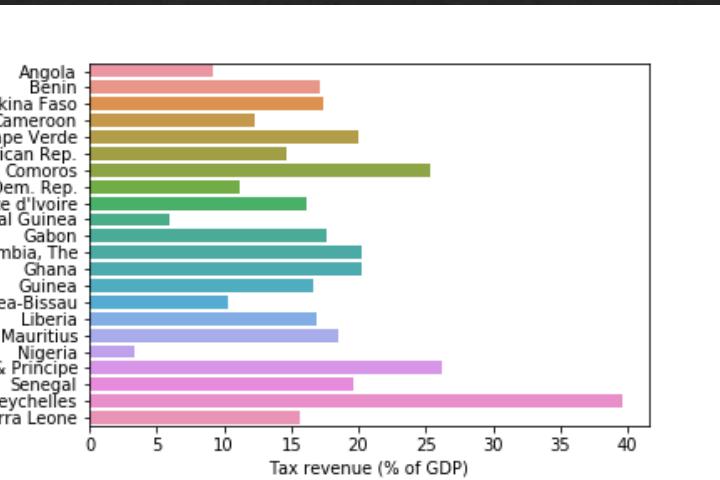
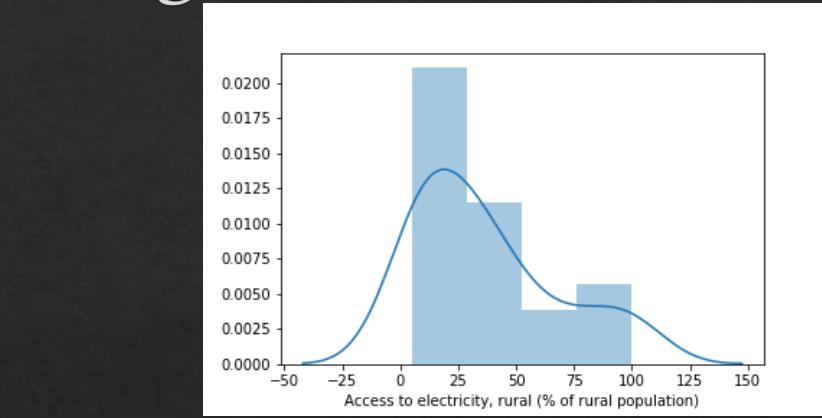
Congo:

- Import goods and services.



# Data Analysis- Additional Findings

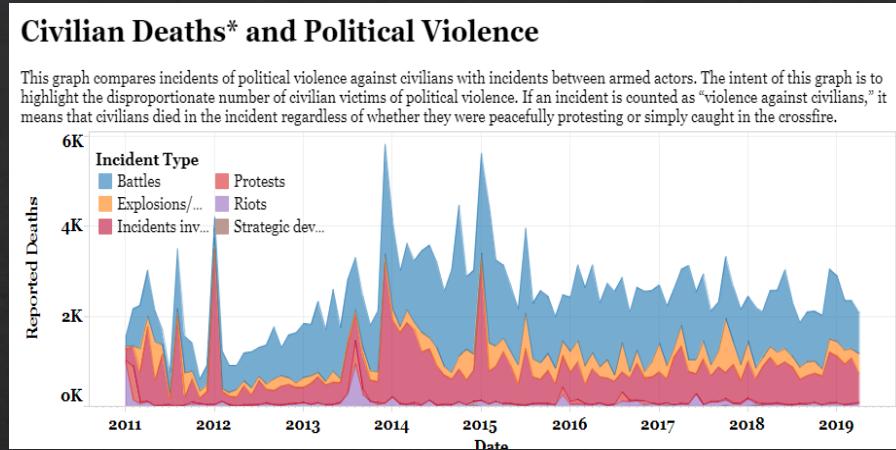
- Rural Electricity
  - No normal distribution
  - Mauritius and Seychelles
- Seychelles dependence on trade
  - Merchandise trade is 123% of GDP
  - 70% exports consists of fish
  - 18% imports consists of tuna
- Nigeria's Tax Rate:
  - As low as 3.4%
  - Government efforts



# Problems

## Instability

- ❖ Civil wars and crises
- ❖ Terrorism
- ❖ Political unrest
- ❖ Lack of Diversification
- ❖ Lack of Education



# Recommendations

- Single-commodity domination
- Structural economic transformation needed
- Risk mitigation strategy for long term peace prospect
- An educated workforce is essential for stimulating long term economic growth and reducing poverty



Thank You

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- Angola Overview: <https://www.worldbank.org/en/country/nigeria/overview>
- Congo Overview: <https://www.worldbank.org/en/country/drc/overview>
- Nigeria Tax Problems: <https://www.bbc.com/news/world-africa-49566927>

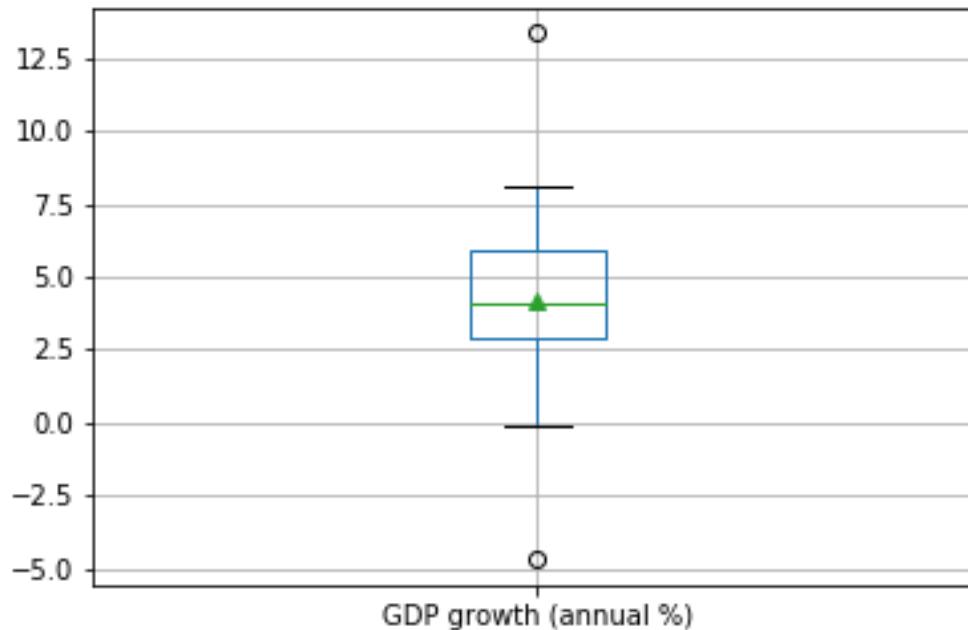
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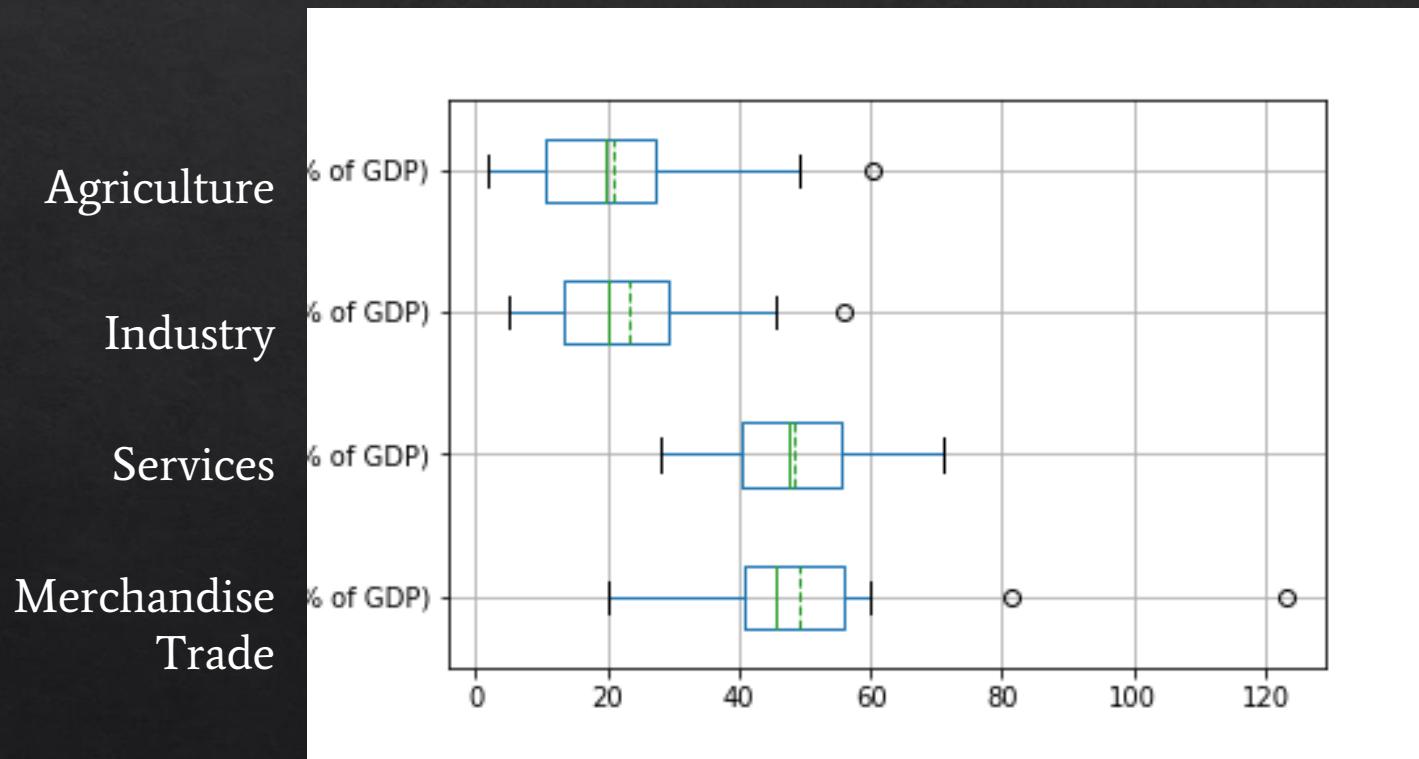
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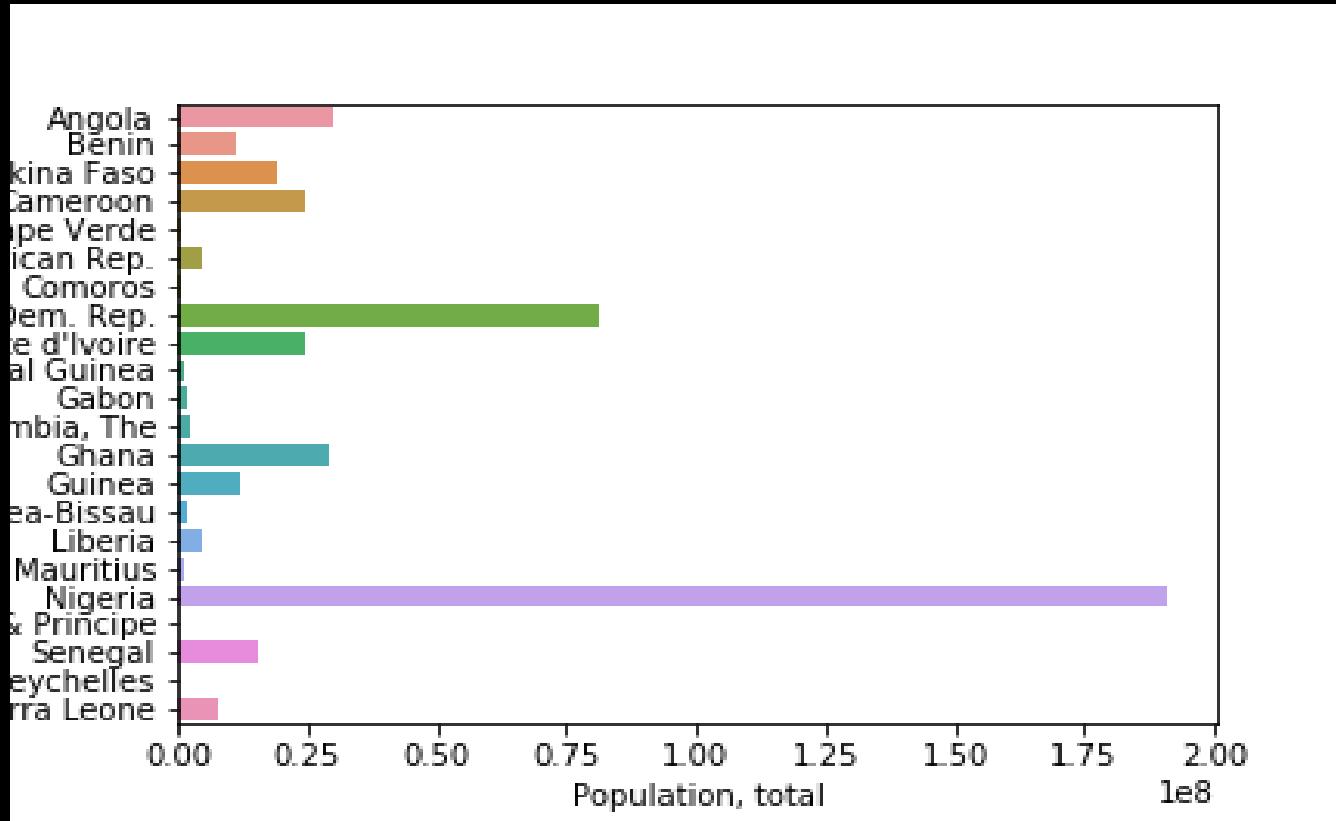
# Appendix 1- Region GDP Growth



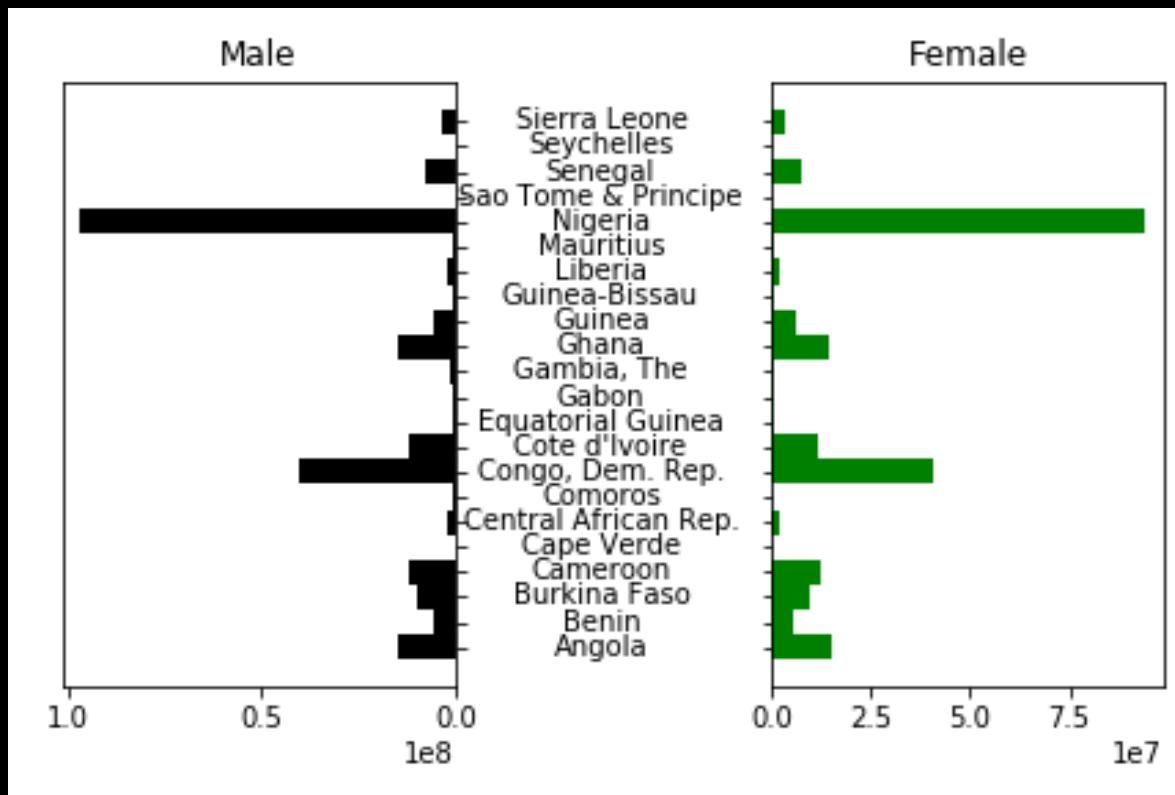
## Appendix 2- Industry GDP



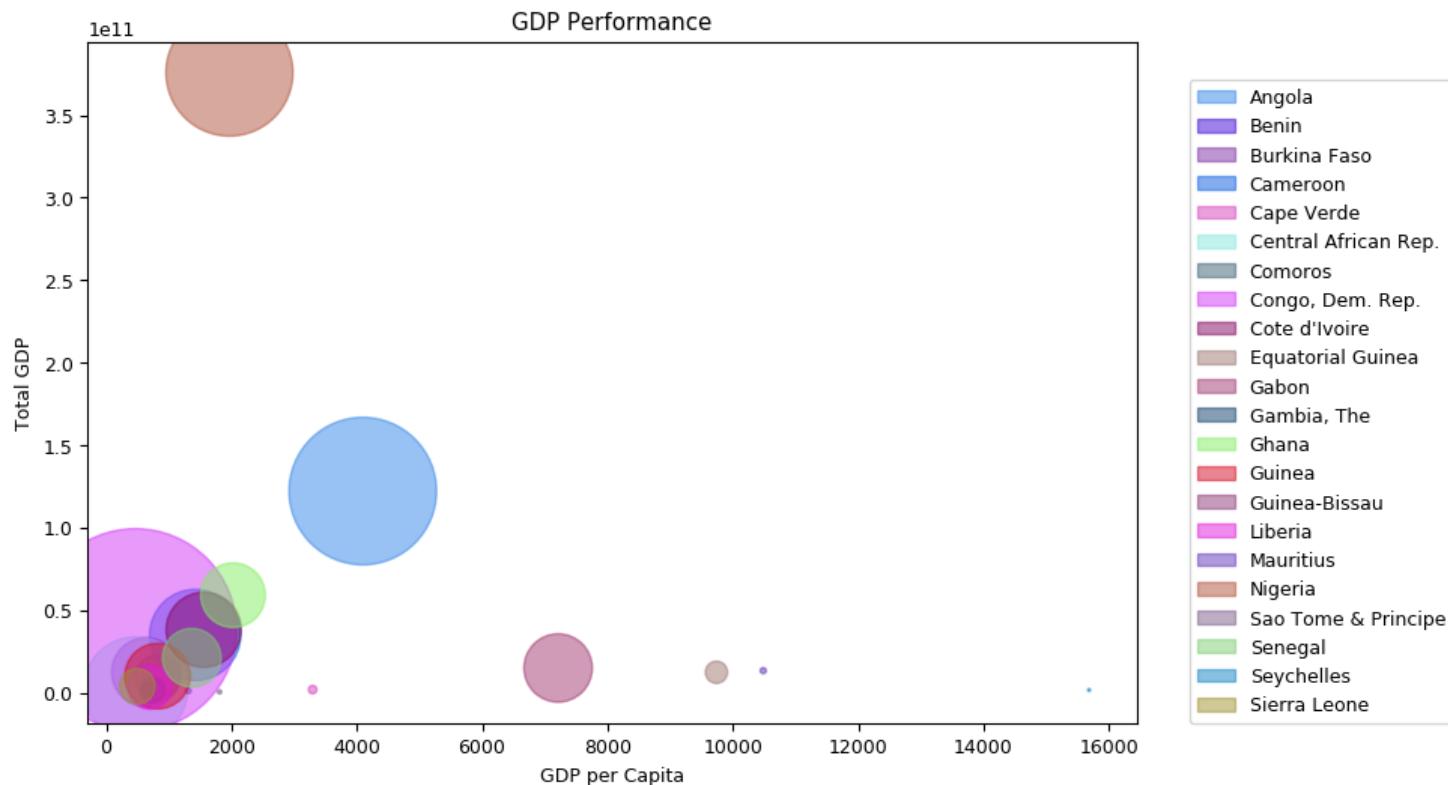
## Appendix 3- Population (Millions)



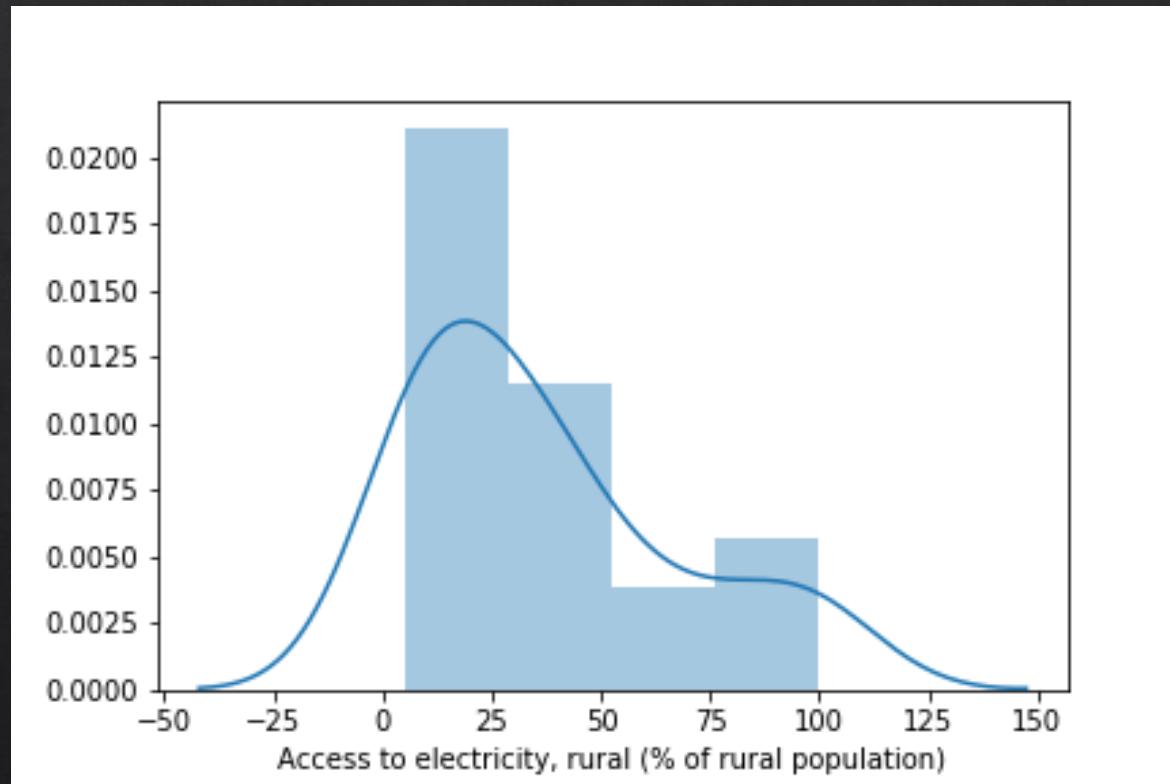
## Appendix 4- Population per Gender change



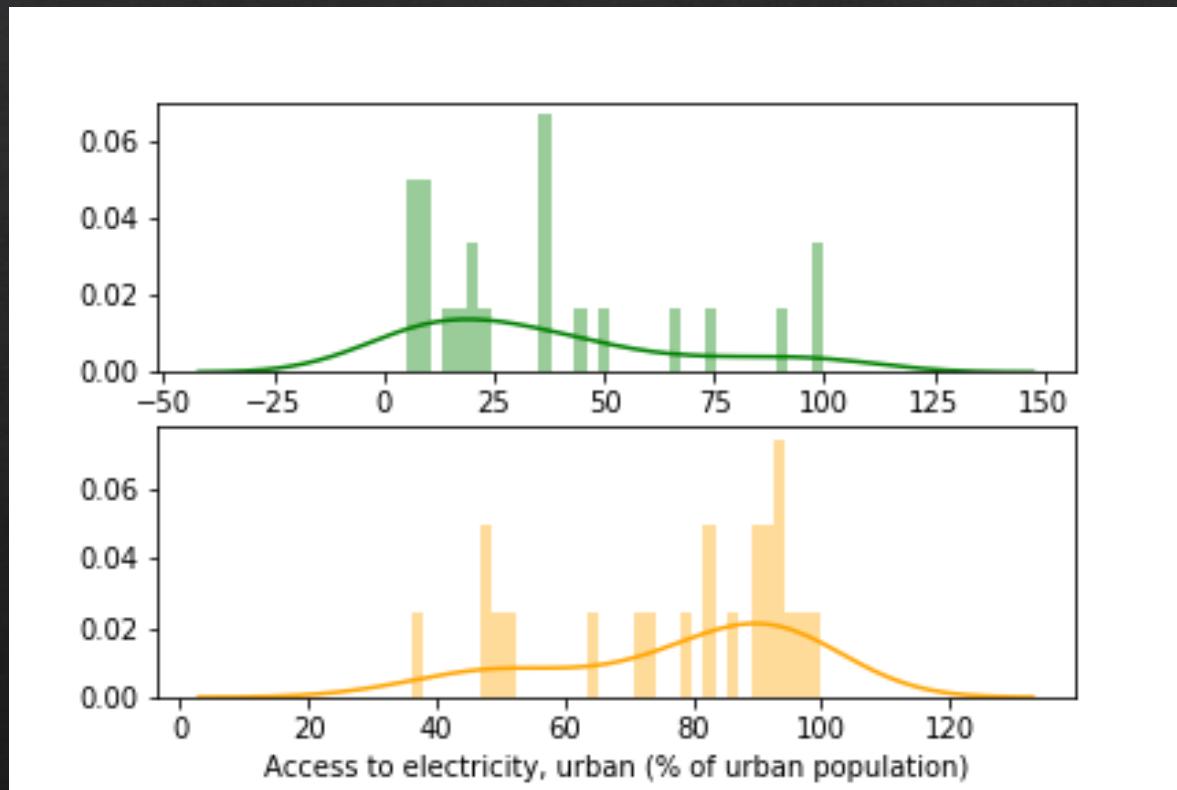
# Appendix 5- GDP Performance



## Appendix 6- Rural Access to Electricity change



# Appendix 7- Rural vs. Urban Electricity



# Appendix 8- Tax Revenue Percentage of GDP

