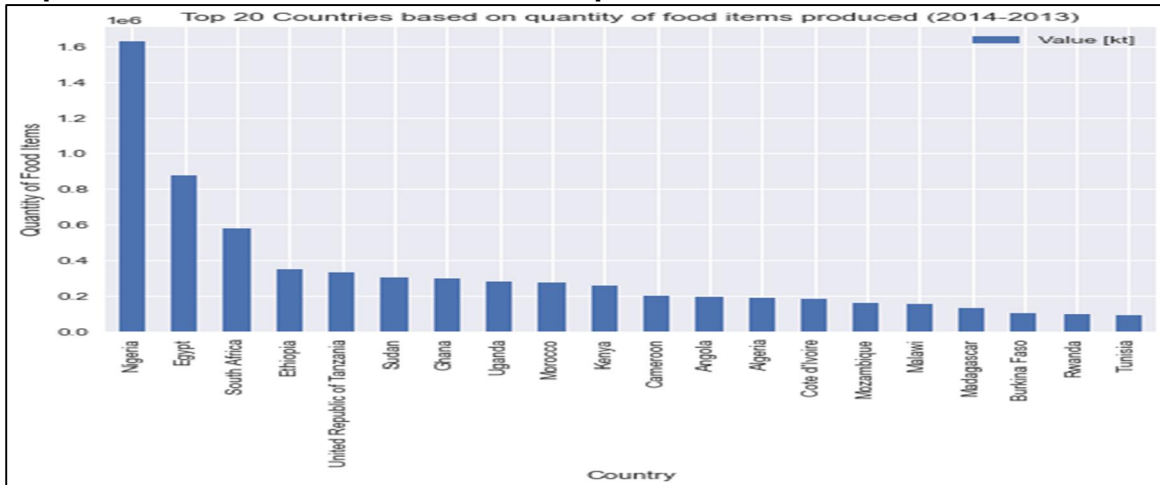


## **Solving the world food shortage problem through Data Storytelling**

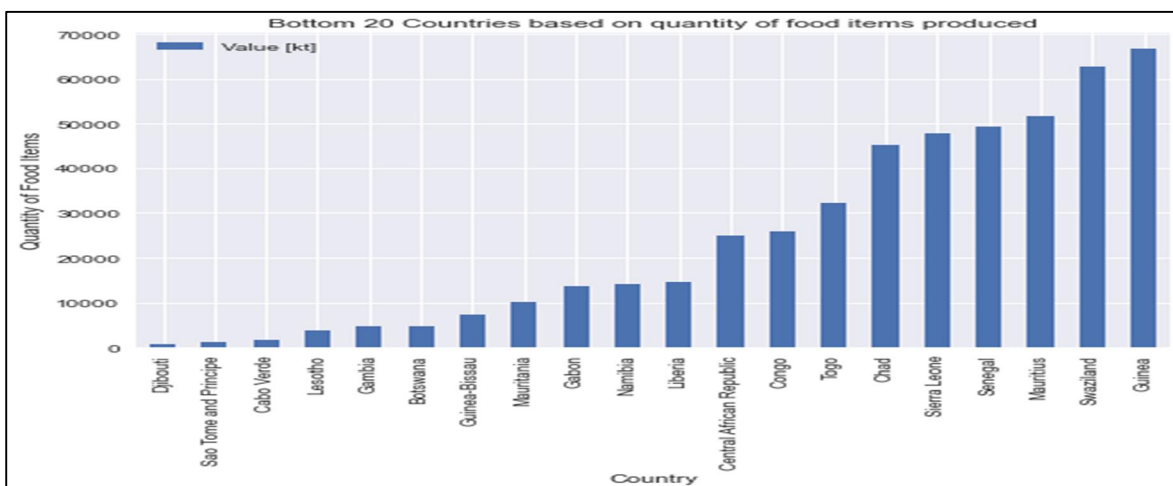
The visuals accompanied by narratives give insights gotten from African food production and consumption datasets.

### **Top 20 Countries based on food items produced**



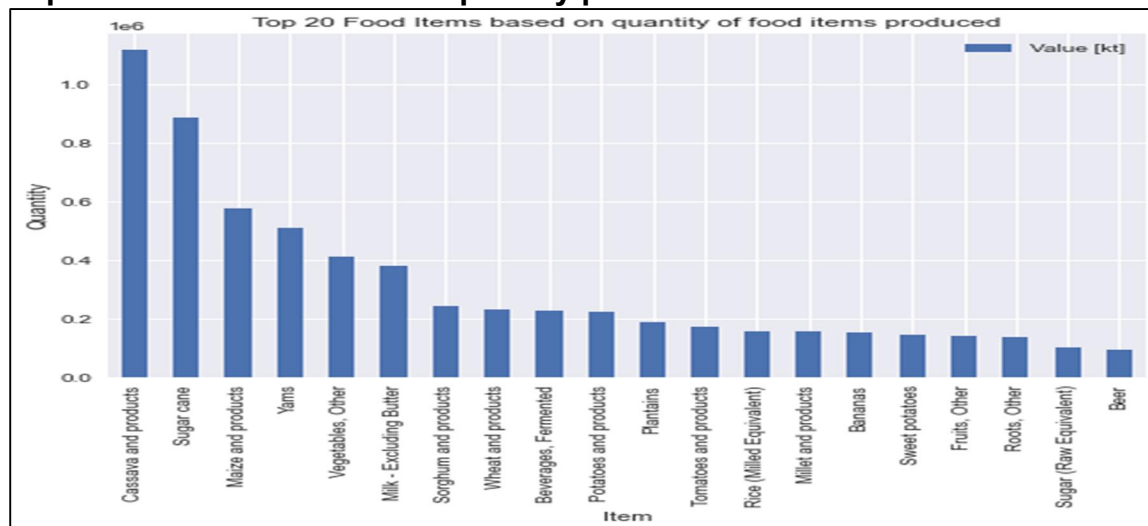
**Narrative:** Nigeria produced the highest quantity of food items between years 2014 to 2013 followed by Egypt then South Africa. There is a wide difference between the quantity of food produced in Nigeria compared to Egypt and other countries.

### **Bottom 20 Countries based on food items produced**



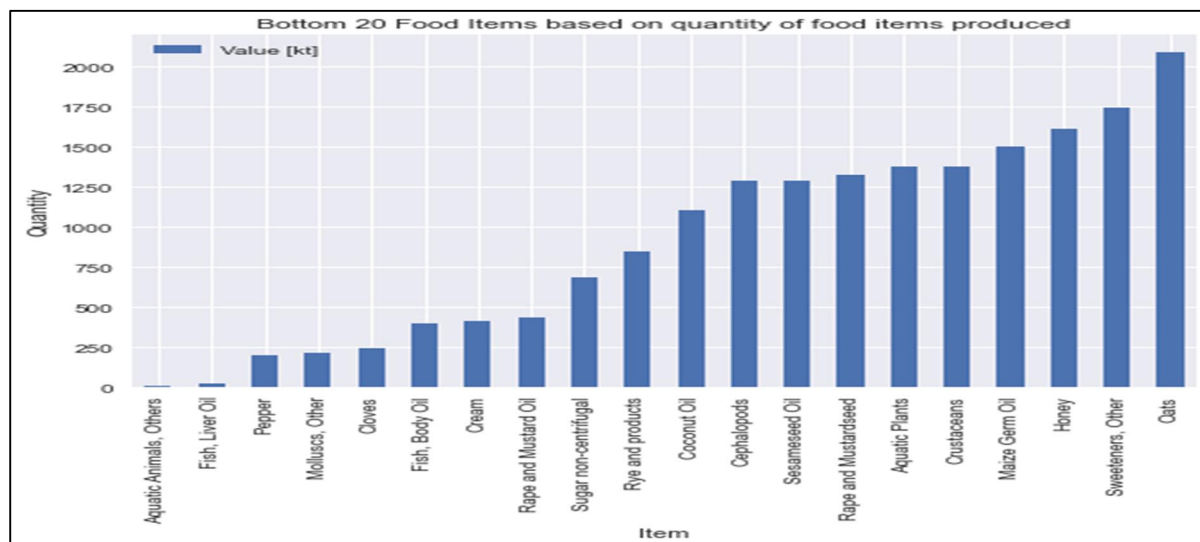
**Narrative:** Djibouti produced the lowest quantity of food items between 2004 to 2013 inclusive, followed by Sao Tome and Principe, and Cabo Verde.

## Top 20 Food Items based on quantity produced



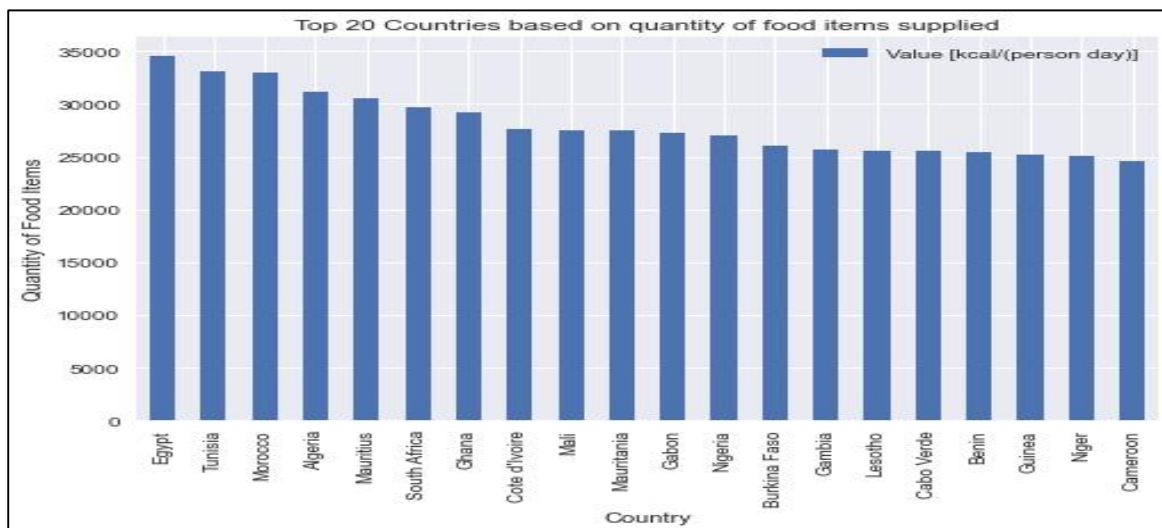
**Narrative:** "Cassava and products" was the most produced food item between the period 2004 to 2013, followed by "sugar cane" and then "maize and products".

## Bottom 20 Food Items based on quantity produced



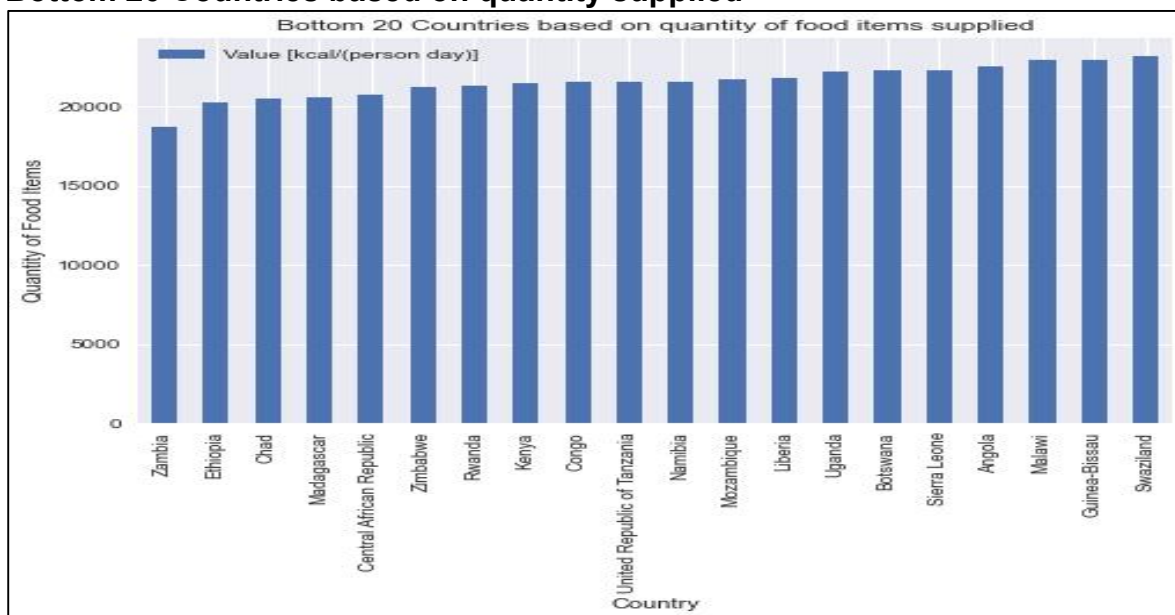
**Narrative:** "Aquatic Animals, Others" was the least produced food item between 2004 to 2013 inclusive followed by "Fish, Liver Oil" and then "Pepper".

## Top 20 Countries based on food items supplied



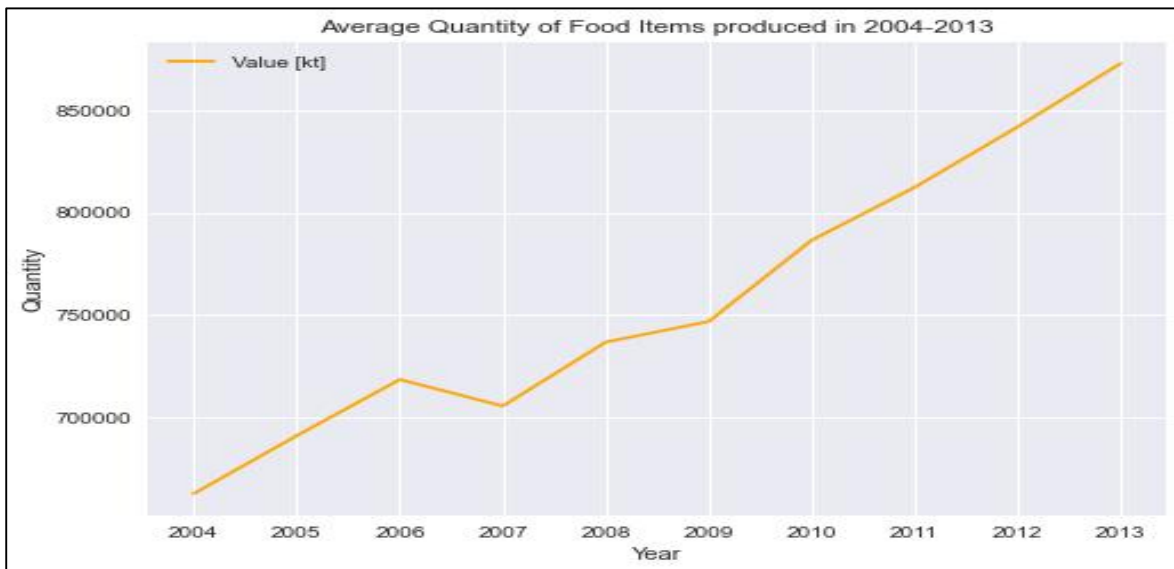
**Narrative:** Egypt produced the highest quantity of food items between the period 2004 to 2013 followed by Tunisia and then Morocco.

## Bottom 20 Countries based on quantity supplied



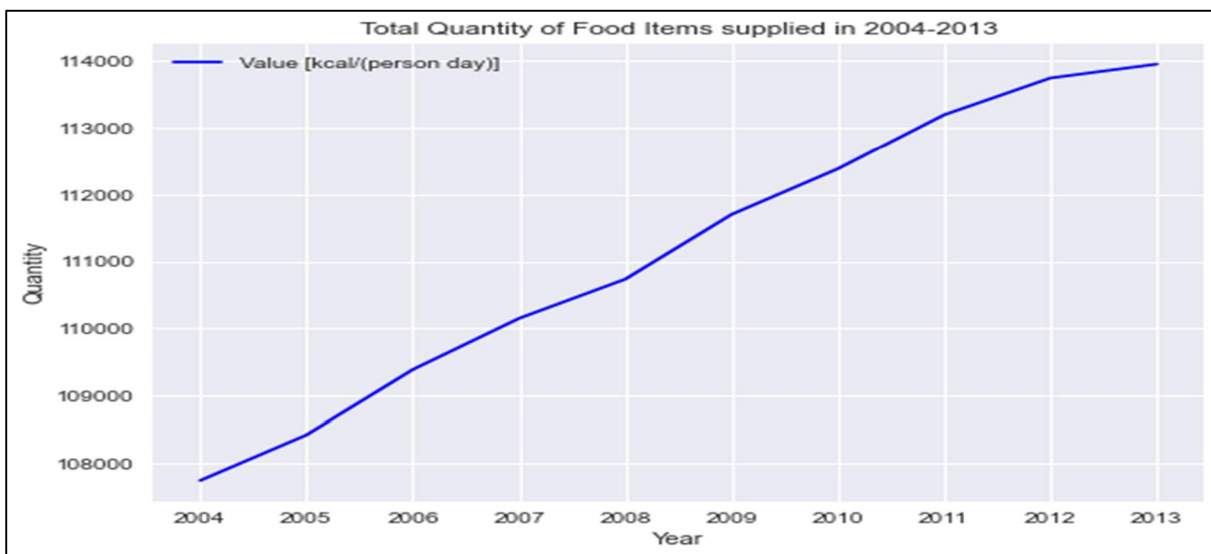
**Narrative:** Zambia produced the least quantity of food items between 2004 to 2013 followed by Ethiopia and then Chad.

## Trend in Food Production over the years



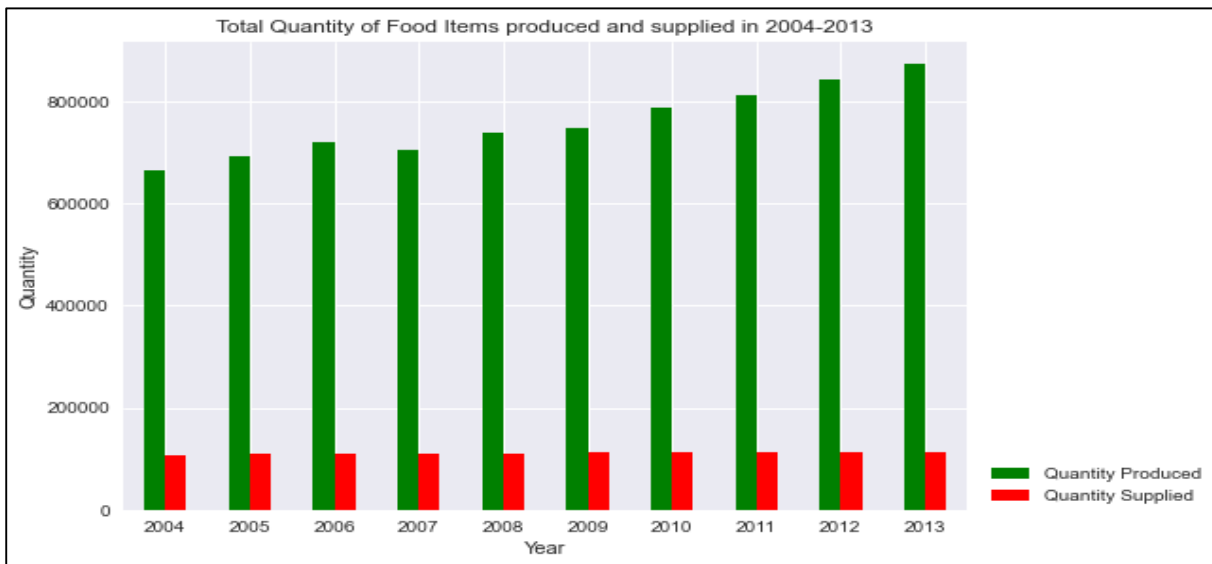
**Narrative:** The quantity of food items produced between 2004 to 2013 increased each year in respect to previous year except in 2007 that there was a fall.

## Trend in Food Consumption over the years



**Narrative:** The quantity of food items supplied between 2004 to 2013 increased each year in respect to previous year.

## Comparison between food production and consumption over the years



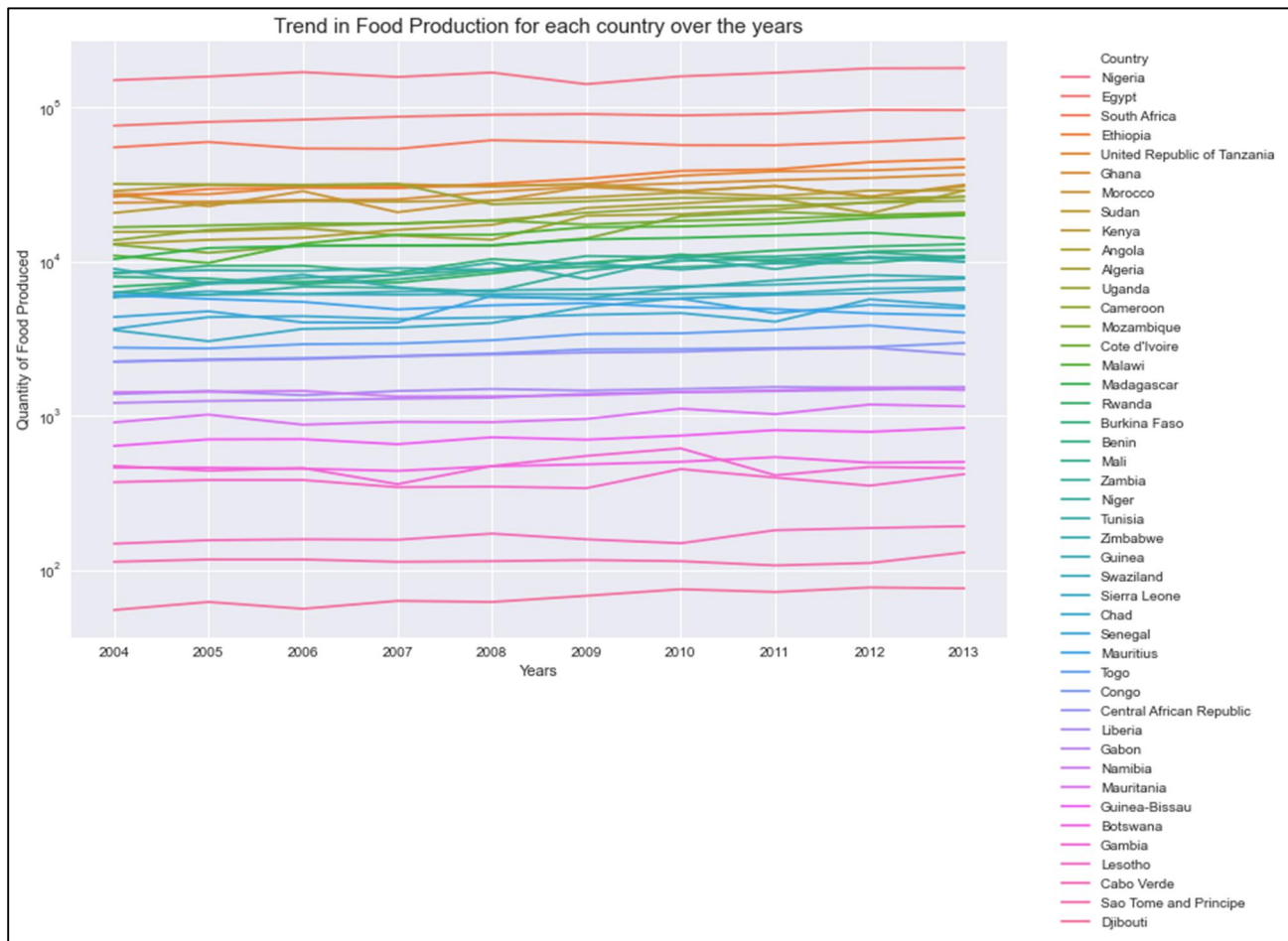
**Narrative:** There was significant difference in the quantity of food produced and quantity supplied across the year 2004 to 2013. Most food items produced were not supplied for consumption to the population in the African countries.

## Relationship between the Mean production and Mean population



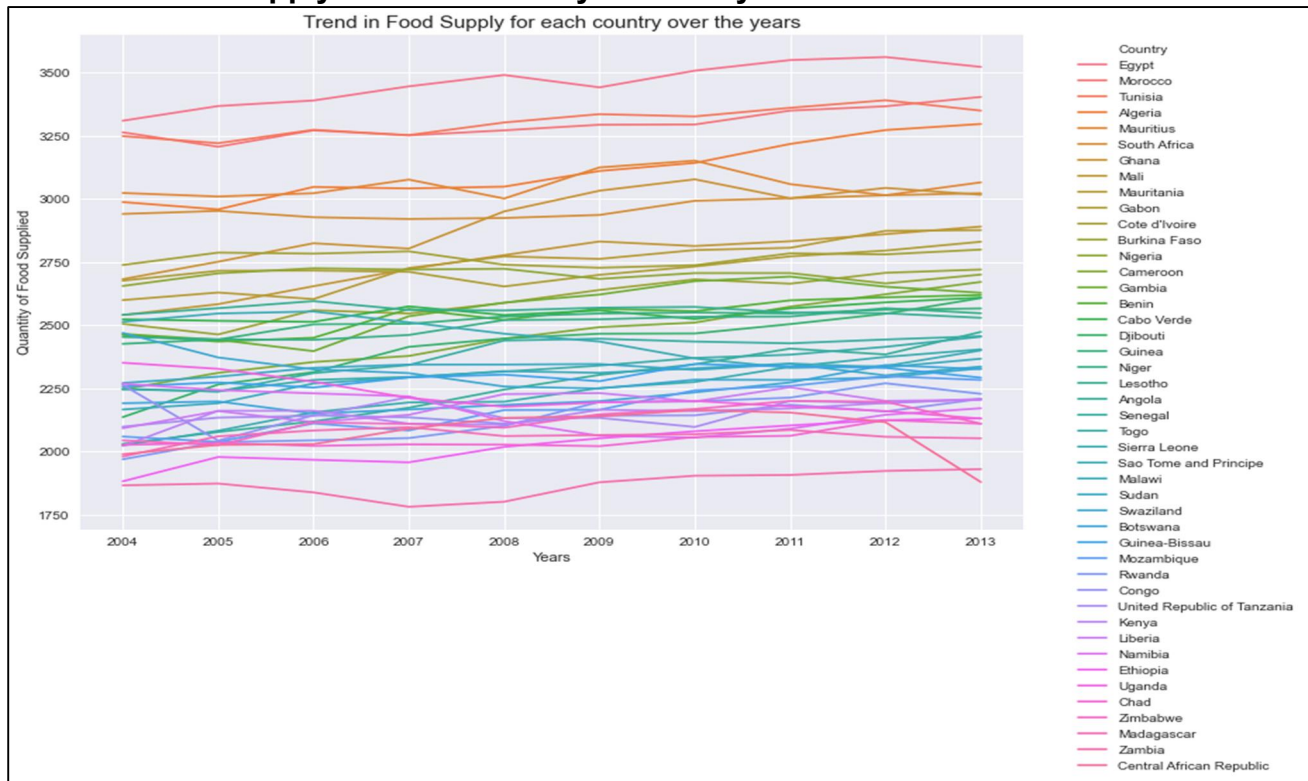
**Narrative:** An increase in the population approximately brought an increase in the food produced across the years 2004 to 2013.

## Trend in Food Production for each country over the years



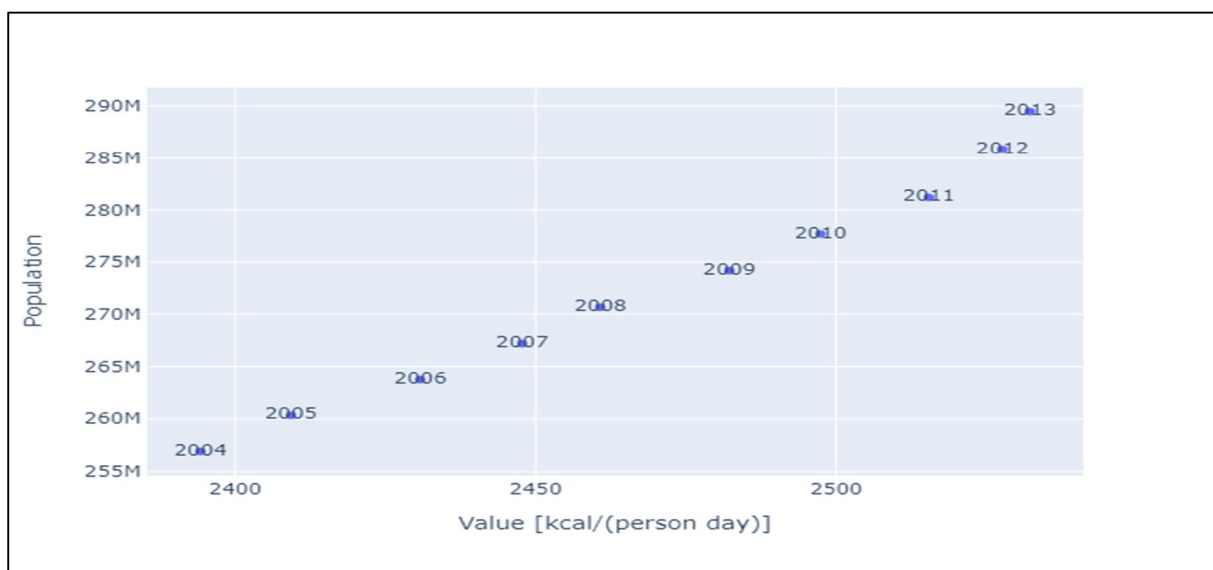
**Narrative:** Nigeria, Egypt and South Africa maintained first, second and third position respectively in the quantity of food produced in Africa while Djibouti, Sao Tome and Principe, and Cabo Verde maintained the least, second to the least and third to the least respectively in the quantity of food produced in Africa.

## Trend in Food Supply for each country over the years



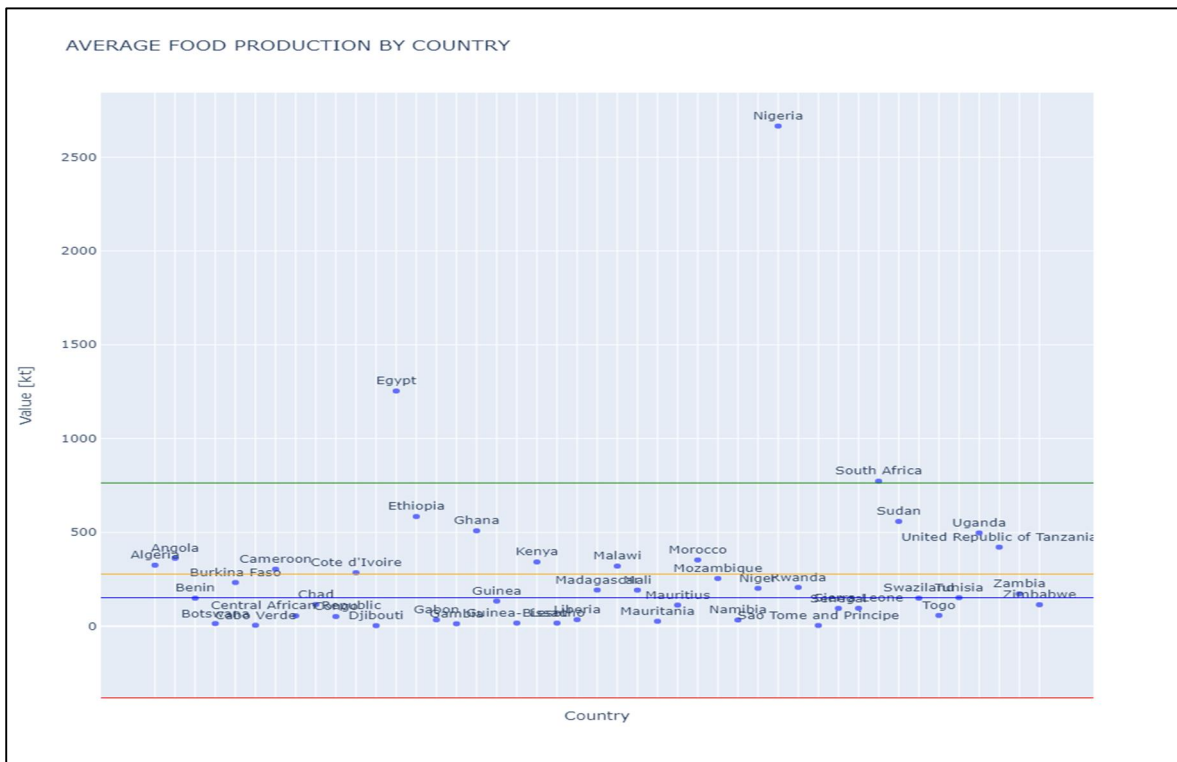
**Narrative:** Egypt maintained the top country that supplied the highest quantity of food items across the years 2004 to 2013 while Central African Republic supplied the least in all the years except in 2013 that Zambia was the lowest food supplied country.

## Relationship between the Mean consumption and Mean population



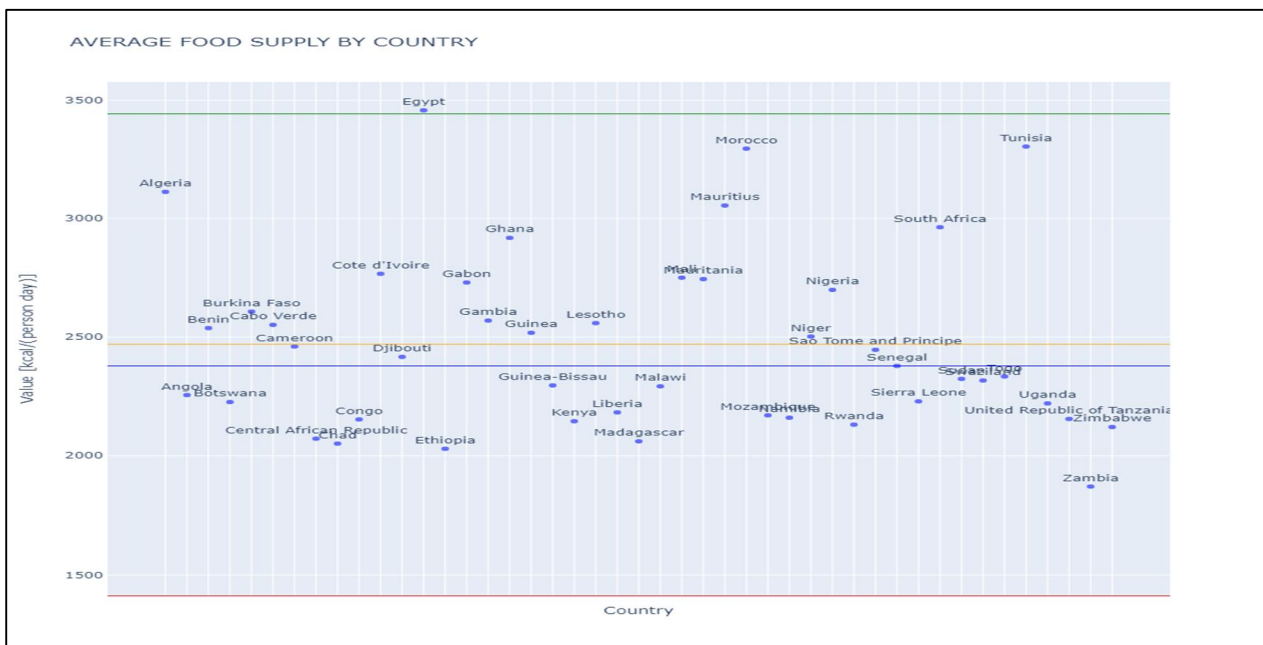
**Narrative:** An increase in the population approximately brought an increase in the food supplied across the years 2004 to 2013.

## Average Food Production by Country



**Narrative:** Nigeria, Egypt and South Africa produced extremely high quantities of food items above other countries in Africa.

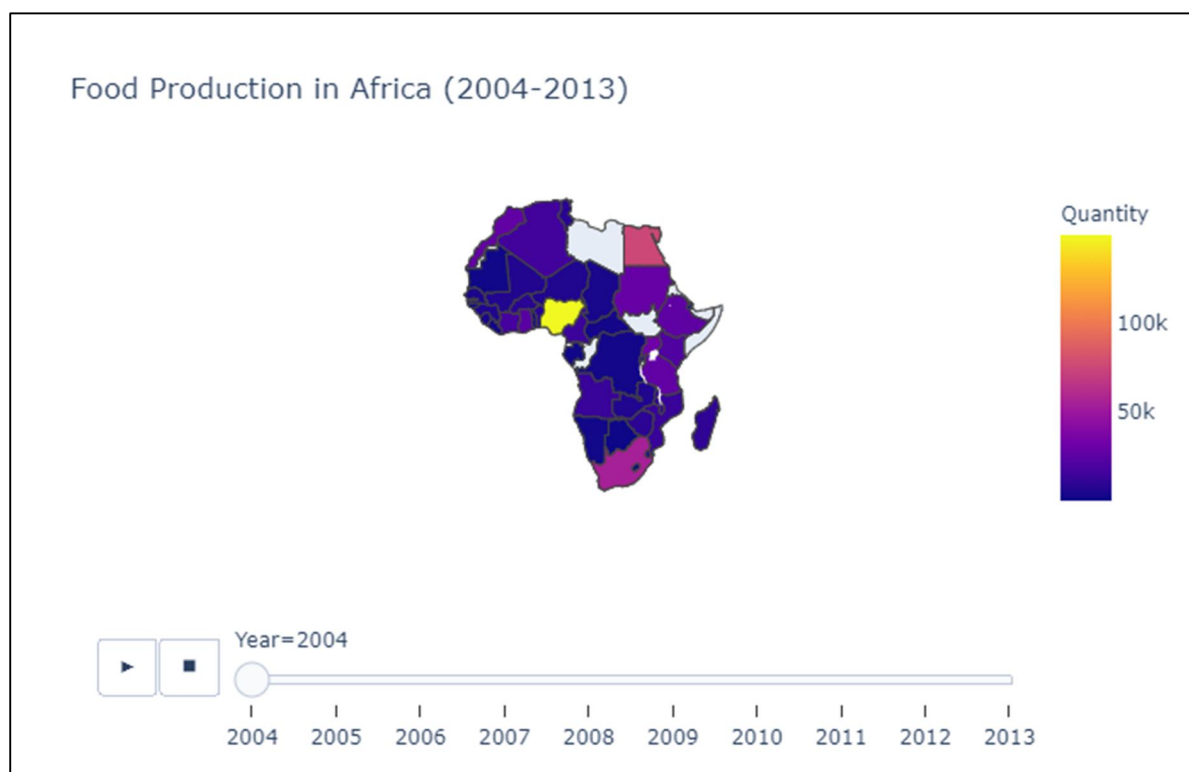
## Average Food Supply by Country



**Narrative:** Only Egypt supplied extremely high quantities of food between 2004 to 2013 above other countries in Africa.

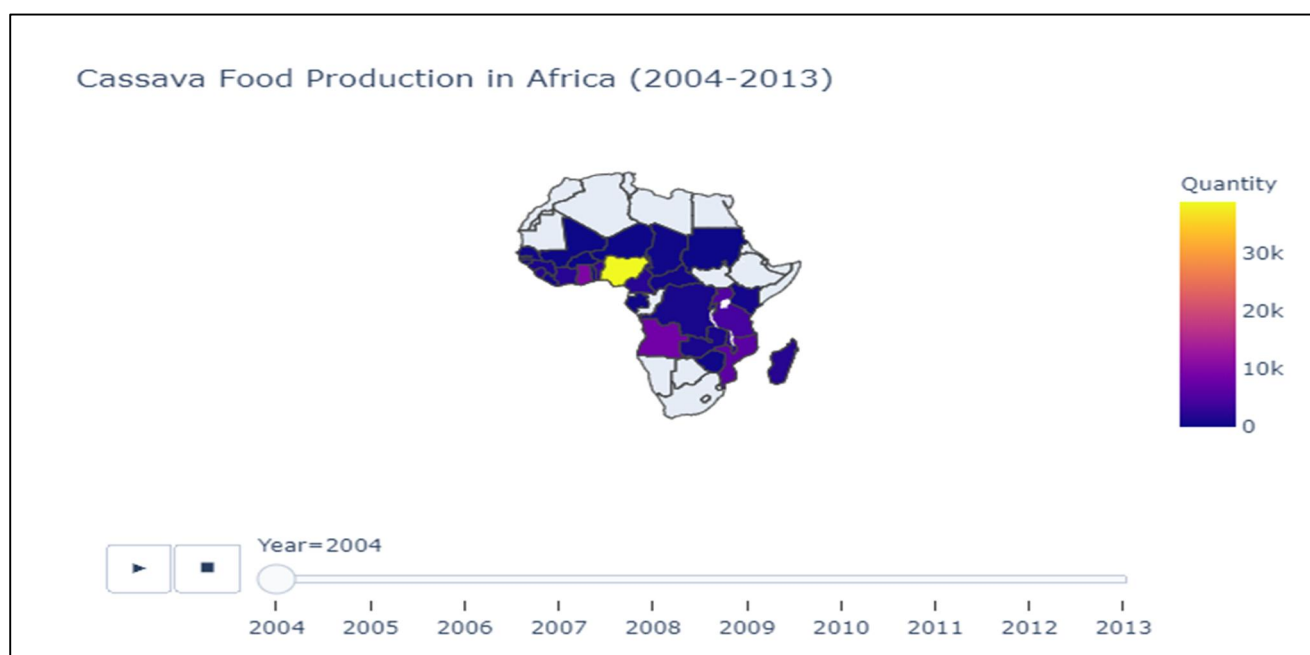


## Map showing the quantity of food items produced in African countries



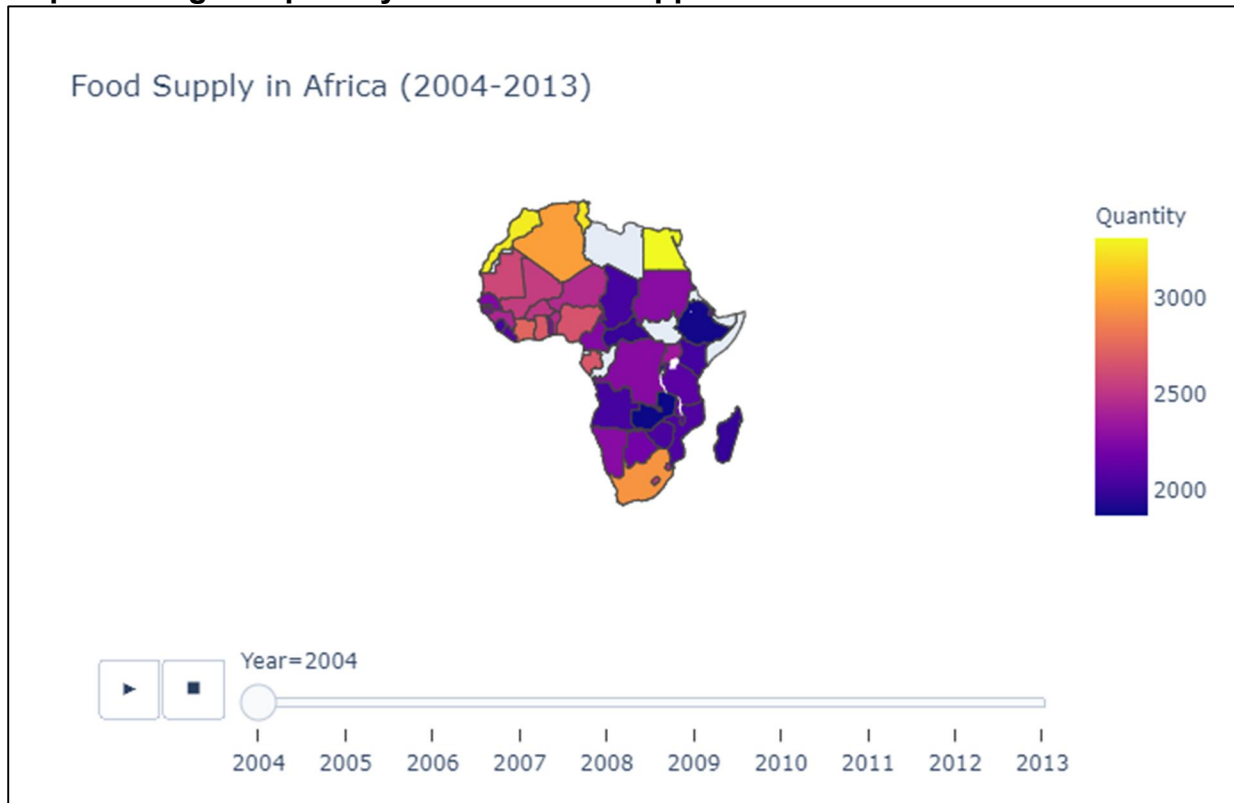
**Narrative:** From the map, it is obvious that Nigeria produced the most food items followed by Egypt and then South Africa. Other countries produced food in low quantities compared to Nigeria.

## Map showing the cassava produced in the African countries between 2004 to 2013



**Narrative:** Not all African countries produce Cassava although it is the food item with the highest quantity of food production. Nigeria produces the highest quantity of cassava.

## Map showing the quantity of food items supplied in African countries



**Narrative:** Egypt, Morocco and Tunisia supplied the highest quantity of food items in Africa.

**Findings:** The difference in quantity of food produced and quantity of food supplied is extremely high. Although, the supply and production of food increased with increase in population in the African countries, there was shortage of food supply because most food produced was not supplied to the population for consumption.