

# **Project Report**

# TRACING THE GROWTH OF THE GLOBAL COMMUNITY: A POPULATION FORECASTING ANALYSIS

### 1. INTRODUCTION

### 1.1 Overview

The world's population is more than three times larger than it was in the mid twentieth century. The global human population reached 8.0 billion in mid November 2020 from an estimated 2.5 billion people in 1950, adding 1 billion people since 2010 and 2 billion since 1998. The world's population is expected to increase by nearly 2 billion persons in the next 30 years, from the current 8 billion to 9.7 billion in 2050 and could peak at nearly 10.4 billion in the mid 2080s.

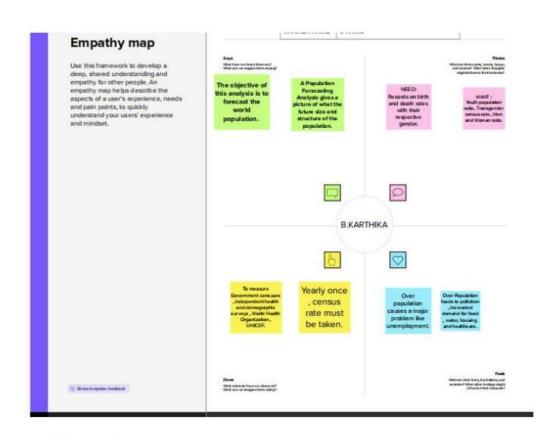
The dramatic growth has been driven largely by increasing number of people surviving to reproductive age the gradual increase in human lifespan, increasing urbanization, and accelerating migration. Major changes in fertility rate have accompanied this growth. These trends will have far - reaching implications for generation to come.

### 1.2 Purpose

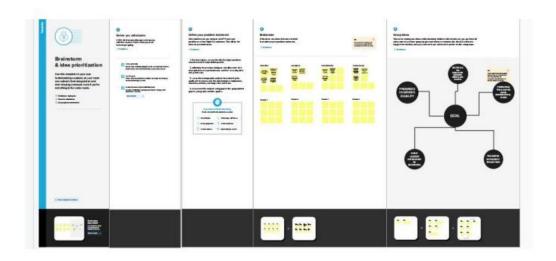
Population analysis is needed to identify problems and community needs, establish goals and objectives, assess alternative courses of action, allocate resources for plan implementation. The main purpose is to improve infrastructure and strategies through which the cities could manage the population.

# 2. Problem Definition & Design Thinking

## 2.1 Empathy Map

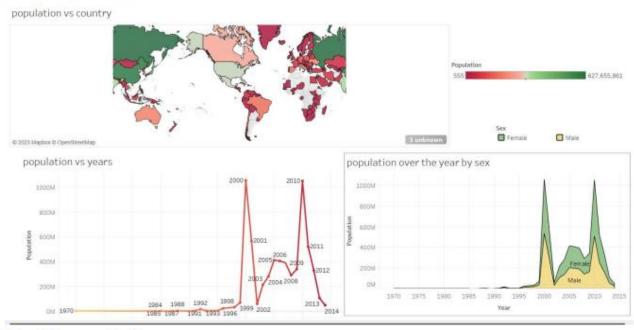


### 2.2 Ideation & Brainstorming Map

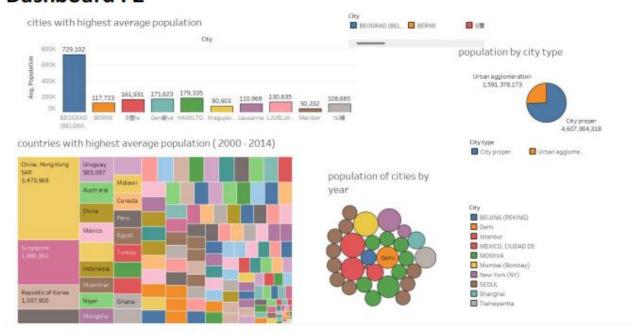


### 3. RESULT

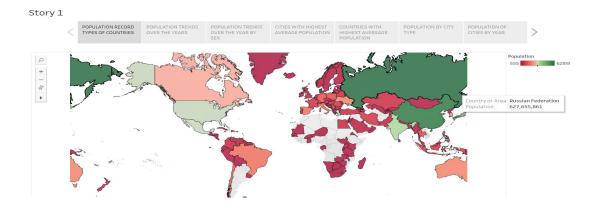
# Dashboard: 1



# Dashboard: 2

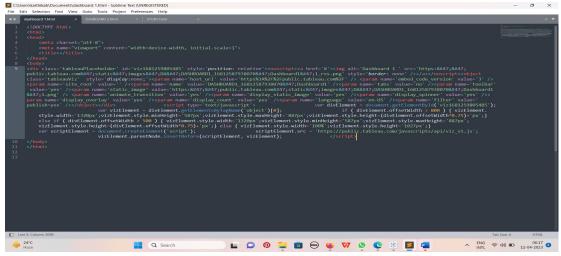


### **STORY**

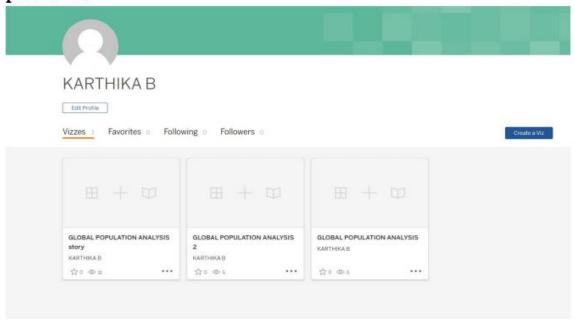


# WEB INTEGRATION: USING SUBLIME TEXT





# Published in tableau public:



# 4 . ADVANTAGES & DISADVANTAGES:

# Advantages:

- 1. You can make reliable estimates of the population with less time, effort and money.
- 2. This analysis helps to monitor the growth of the population.
- 3. Reduces time needed to collect and process the data and produce results as it requires a smaller scale of operation.

# **Disadvantages:**

- **1.** Difficulty in gaining access to a list of a larger population, time, costs and that bias can still occur under certain circumstances.
- 2. Data for small geographical areas also may be too unreliable to be useful.
- 3. Data on sub-populations (such as a particular ethnic group) may be unreliable to be useful.

### 5. APPLICATIONS

- 1. To support decision-making processes in diverse socioeconomic areas, such as, higher education institutional network planning, both in public and private sectors.
- 2.Regular census of population provide information that is key to making decisions about national policy.
  - 3.Used to quantify demographic information.
- 4.To assess relationships with ecosystems, human health and infrastructure.
- 5.Inter-census and post-census techniques can be implemented.

#### 6. CONCLUSION

In conclusion, the population forecasting analysis gives visibility into data, allowing the people to adjust and adapt to future predictions by optimizing resources. Forecasting is an integral part of demand management since it provides an estimate of the future demand and the basis for planning in a accurate manner. Thus, forecasting analysis involves detailed analysis of the past and present events with a view to draw conclusions about future events. And to get a clear cut idea about probable events in the future.

#### 7. FUTURE SCOPE

The world's population continues to grow , but the pace of growth is slowing down.Population analysis can be used as a tool to provide information on possible scenarios of future population. By 2100 , the world's population is projected to reach approximately 10.9 billion, with annual growth of less than 0.1% - a steep decline from the current . so population forecasting analysis plays a major role in future.

### 8. APPENDIX

### **SOURCE CODE:**

### LINKS:

https://public.tableau.com/views/STORY\_1681260357558 0/Story1?:language=en-US&:display\_count=n&:origin=viz\_share\_link

https://public.tableau.com/views/DASHBOARD1\_1681258 7938070/Dashboard1?:language=en-US&:display count=n&:origin=viz share link

https://public.tableau.com/views/DASHBOARD2\_1681260 0671980/Dashboard2?:language=en-US&:display\_count=n&:origin=viz\_share\_link