

## PROJECT REPORT TEMPLATE

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# UNEARTHING THE ENVIRONMENTAL IMPACT OF HUMAN ACTIVITY: A GLOBAL CO<sub>2</sub> EMISSION ANALYSIS

## INTRODUCTION

### Over view

Global warming is one of the biggest challenges currently being faced by the human race, although correlation is not causation, a likely cause of global warming is due to increased atmospheric carbon dioxide from human activities. CO<sub>2</sub> Emission refers to the carbon dioxide emitted throughout the world. For this analysis we will be focusing on CO<sub>2</sub> Emission and its effects on the world we live in as well as some key factors and stats that may play a role in emission of CO<sub>2</sub> globally.

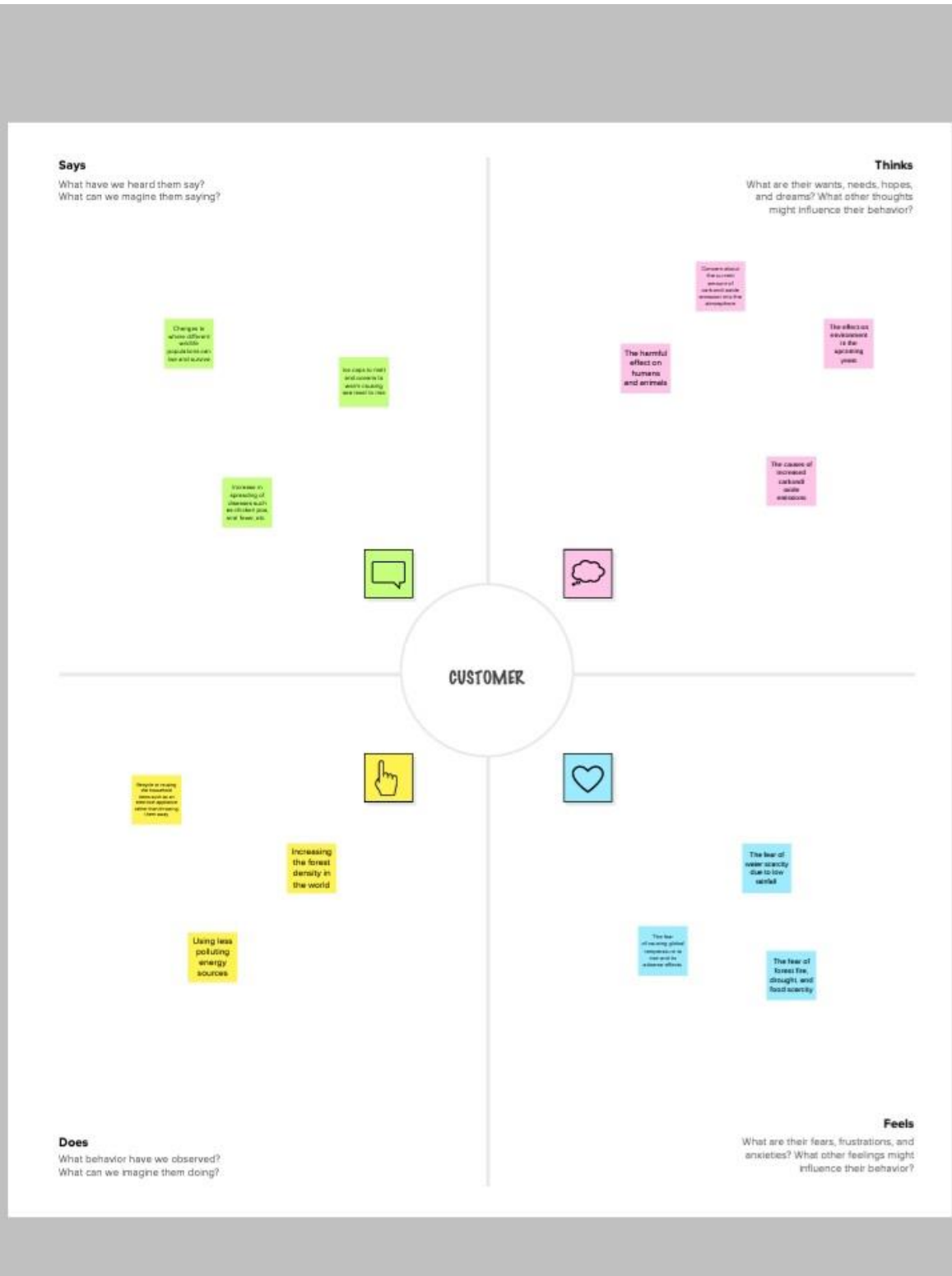
Fossil fuel use is the primary source of CO<sub>2</sub>. This project throw light onto how much fossil fuels are burnt, per year, per nation, which amounts to an increase in CO<sub>2</sub> every year.

### Purpose

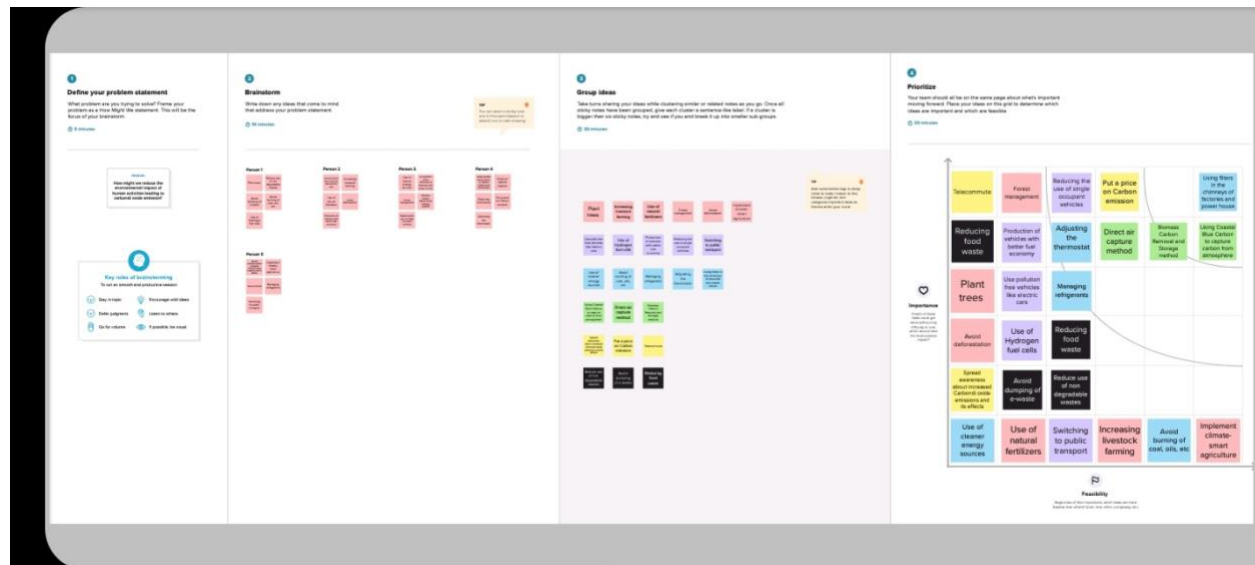
This project will help researchers and environment experts to predict global warming and thus CO<sub>2</sub> emission can be decreased.

# **PROBLEM DEFINITION AND DESIGN THINKING**

## **Empathy Map**



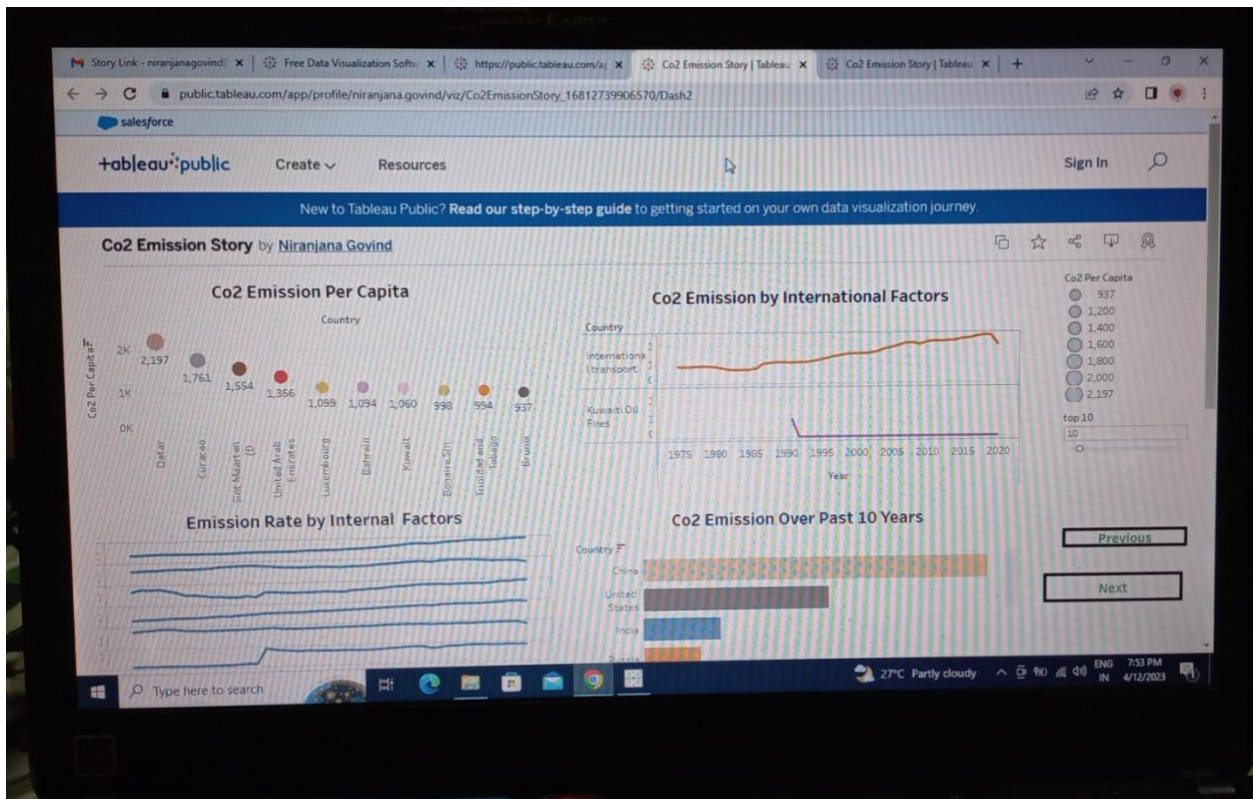
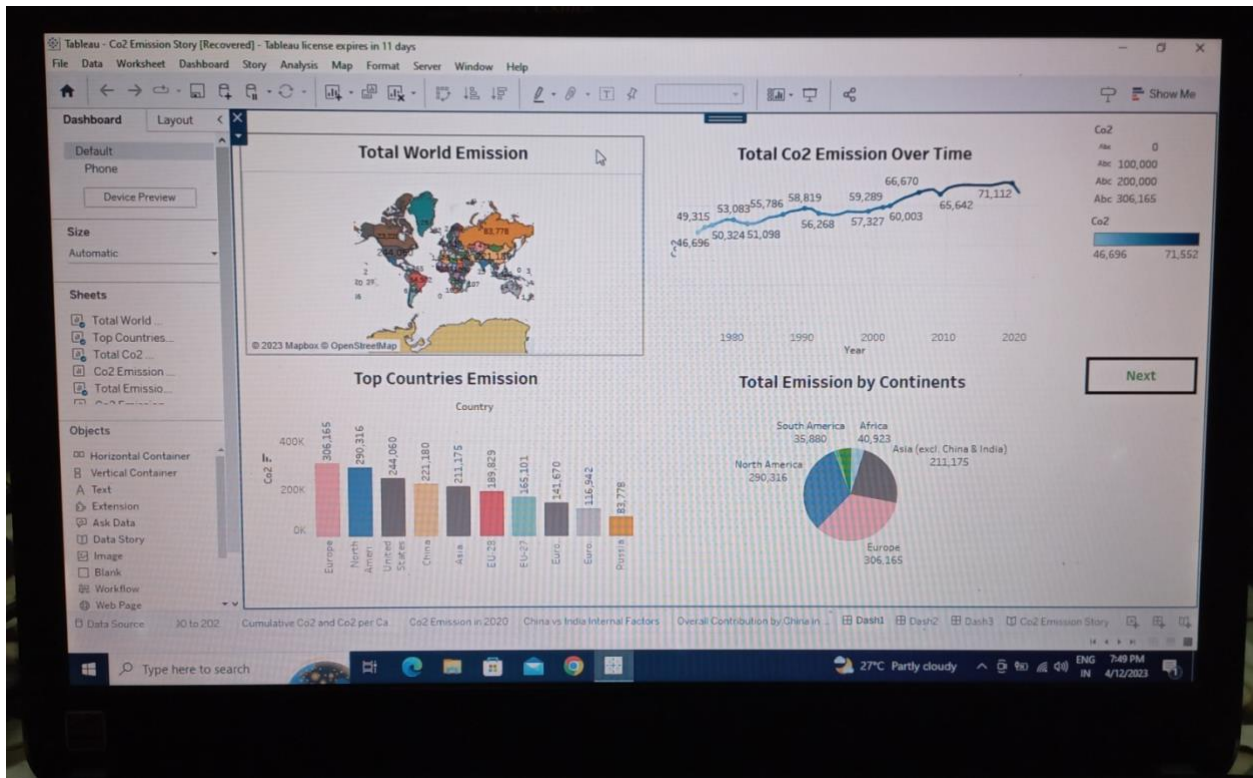
# Ideation & Brainstorming Map

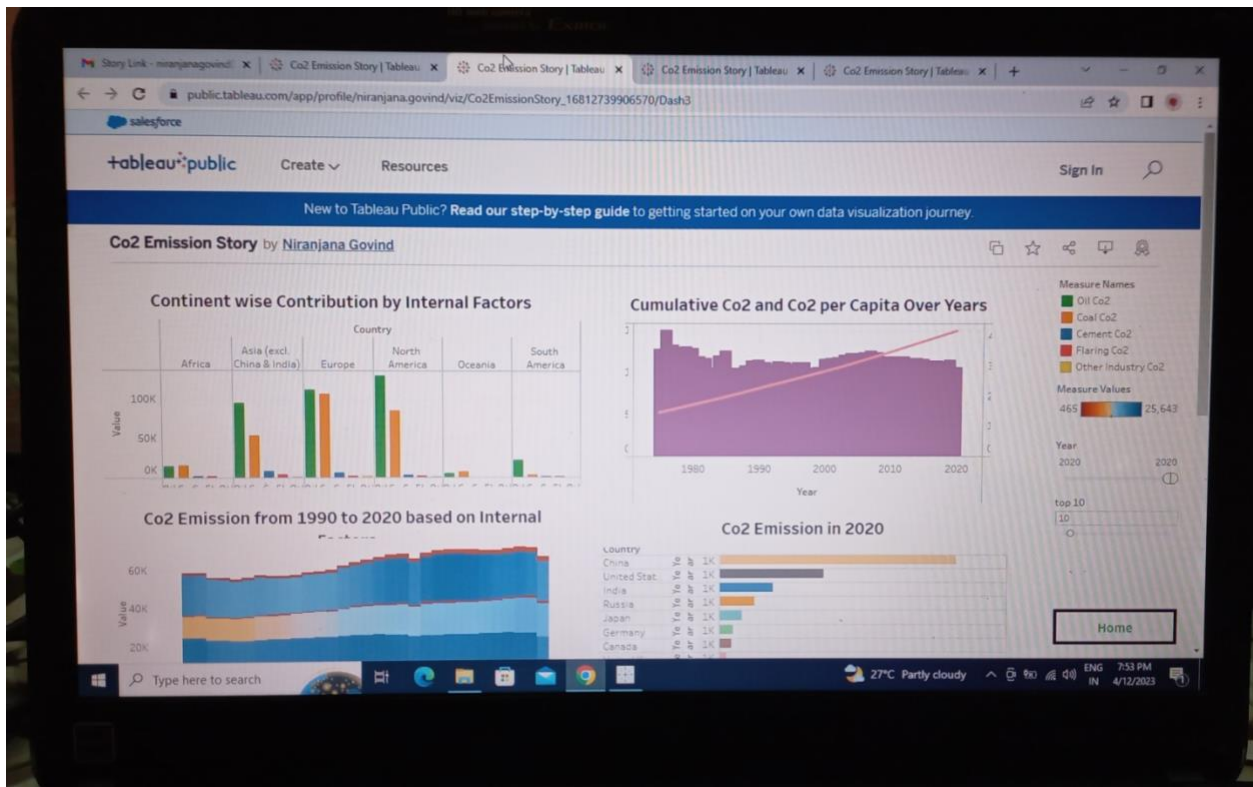


## RESULT

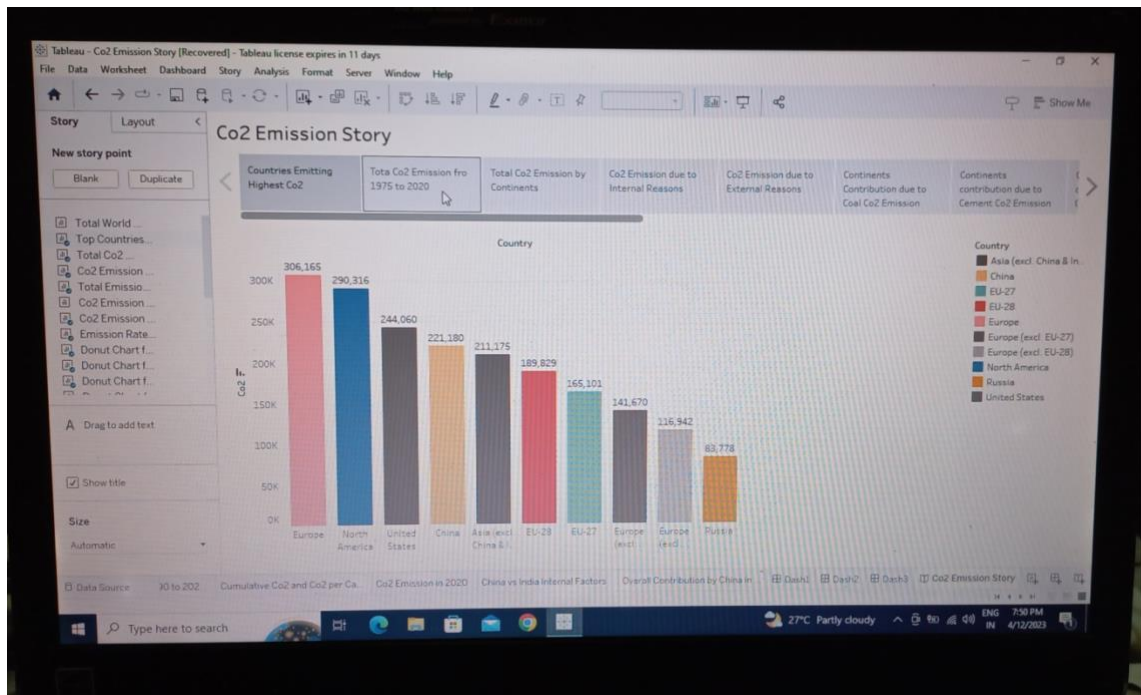
We have used the dataset to create data visualization. Then we have organized the data into Dashboard and Story which is data in an organized, easy-to-read format.

### 1. Dashboard





## 2. Story





## **ADVANTAGES & DISADVANTAGES**

### **1. Advantages of CO<sub>2</sub> emission:**

- Green plants grow faster with more CO<sub>2</sub>.
- Benefit of green house gases for photosynthesis.

### **2. Advantages of reducing CO<sub>2</sub> emission: 2**

- Improve air quality and save lives.
- Improved water and soil quality.

### **3. Disadvantages of CO<sub>2</sub> emission:**

- Rise in sea level .
- Leading to the loss of coastal land.
- Threats to biodiversity.
- Change in precipitation pattern.
- Volcano eruption.
- Air pollution.
- Rise in earth temperature causing global warming.

## **APPLICATIONS**

Worldwide emission of CO<sub>2</sub> from burning fossil fuels total about 34 billion tones per year about 45% of this from coal CO<sub>2</sub>, about 35% from oil CO<sub>2</sub> and 20% from gas CO<sub>2</sub>.

By analyzing the global CO<sub>2</sub> emission across countries from 1975 to 2020 every country can set goals to decrease this amount of CO<sub>2</sub> emission yearly.

## **CONCLUSION**

Global warming is not something to take lightly. The oceans are warming and the polar ice caps are melting and green house gas level is at an all time high.

Large CO<sub>2</sub> emission depletes resource on large and small scales from country deforestation activities to one home increased use of air conditioning.

We have analyzed the top emitting countries, CO<sub>2</sub> emission India vs USA, CO<sub>2</sub> emission per capita, CO<sub>2</sub> emission over past 10 years etc. Using this data we can help stabilize the Earth atmosphere and reduce global warming and its effects.

## **FUTURE SCOPE**

Once our CO<sub>2</sub> emission analysis has been calculated, SCS offers complete the service option to achieve carbon neutrality, including guidance on the purchasing of verified carbon offset. Carbon neutral certification demonstrates to decarbonization and neutralization by meeting the requirement of the SCS.