# PROJECT REPORT

## UNEARTING THE ENVIRONMENTAL IMPACT OF HUMAN ACTIVITY: A GLOBAL Co2 EMISSION ANALYSIS

## 1. INTRODUCTION

### 1.1 OVERVIEW

The objective of our object is to analysis and identify the common cause of a global co2 emission analysis. This project will explore the various factors that contribute to know about carbon dioxide and global warming. The analysis of data is done using Tableau. It can result in many various alterations to the environment, eventually impacting the human health. The esteemed aim is to focus the necessity of saving the environment against increasing of carbon dioxide emission and global warming. The outcome of this analysis will give you the idea and mistakes we have done in order to save the environment.

### 1.2 PURPOSE

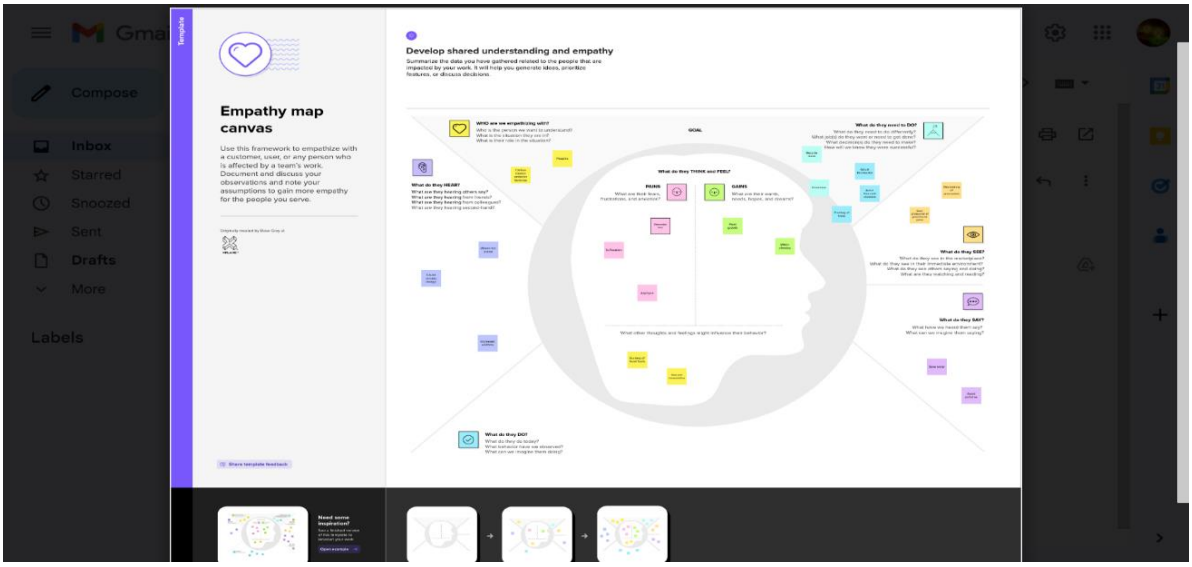
The purpose of this project is to analysis the data related to carbon dioxide emission and global warming. The project mainly focuses on

- To increase the understanding of the atmosphere /eco system exchange of green house gases like carbon dioxide.
- To develop a model, which can be used to investigate the human and climatic impact of emissions of green house gases like carbon dioxide from a natural eco system.
- Further more the project by perform a specific analysis of the impact of selected climatic scenarios on the exchange of carbon dioxide gas causing global warming

# 2. PROBLEM DEFINITON & DESIGN THINKING

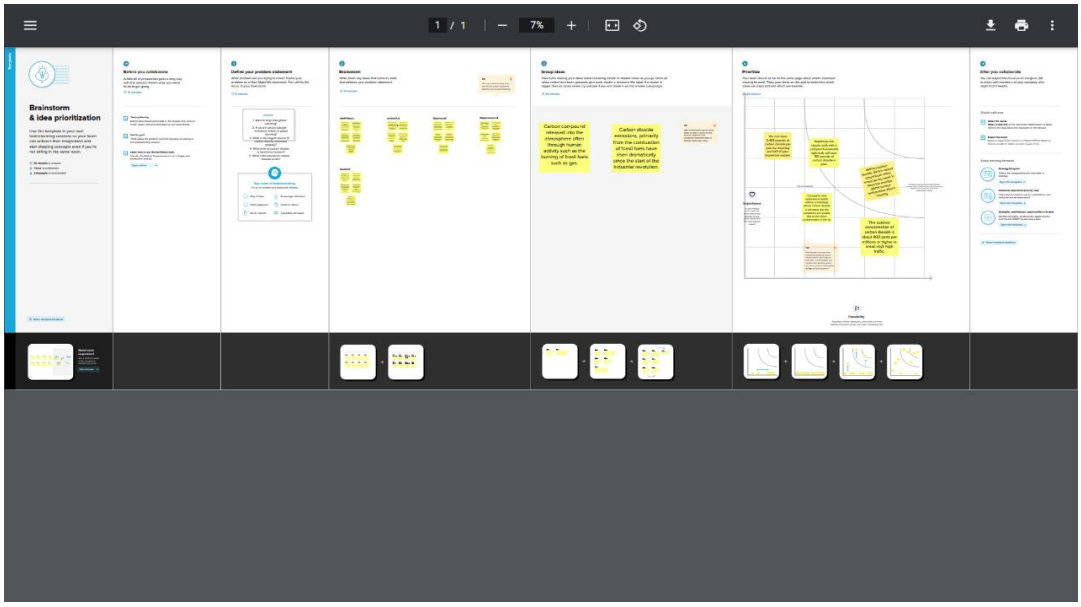
## 2.1 EMPATHY MAP

https://drive.google.com/file/d/182WPOemqJ3G42ejTbElarrC-ySqDEbMx/view?usp=share_link

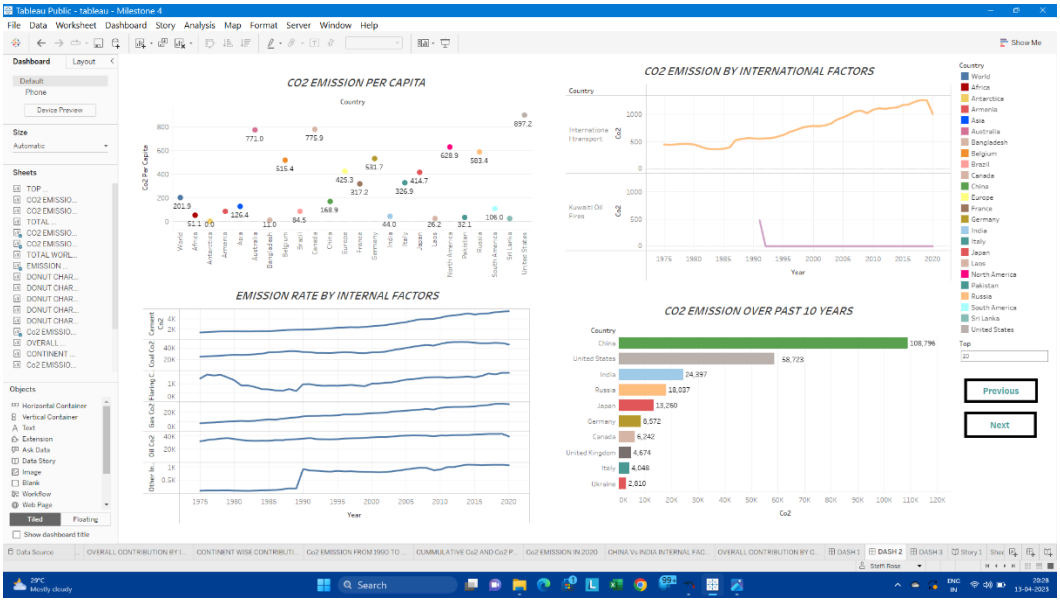


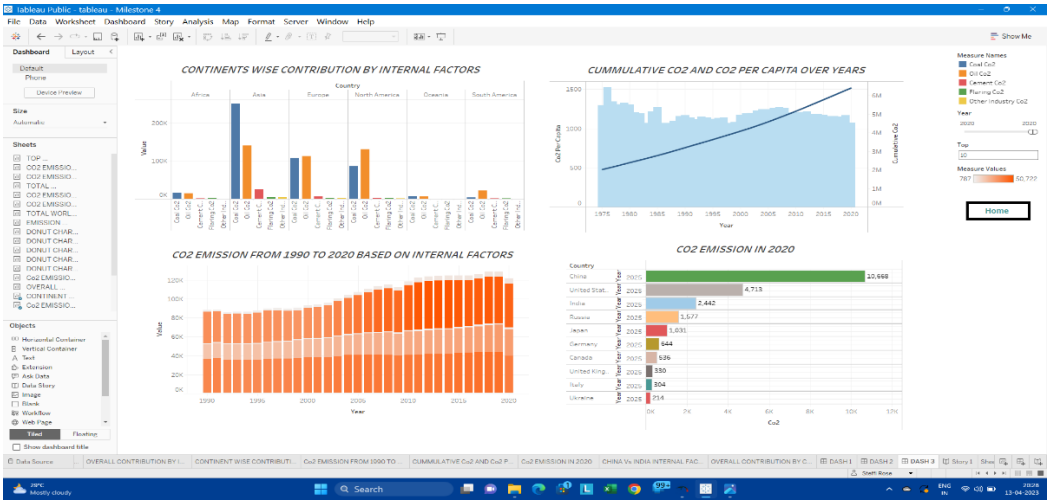

## 2.2 IDEATION & BRAINSTORMING MAP

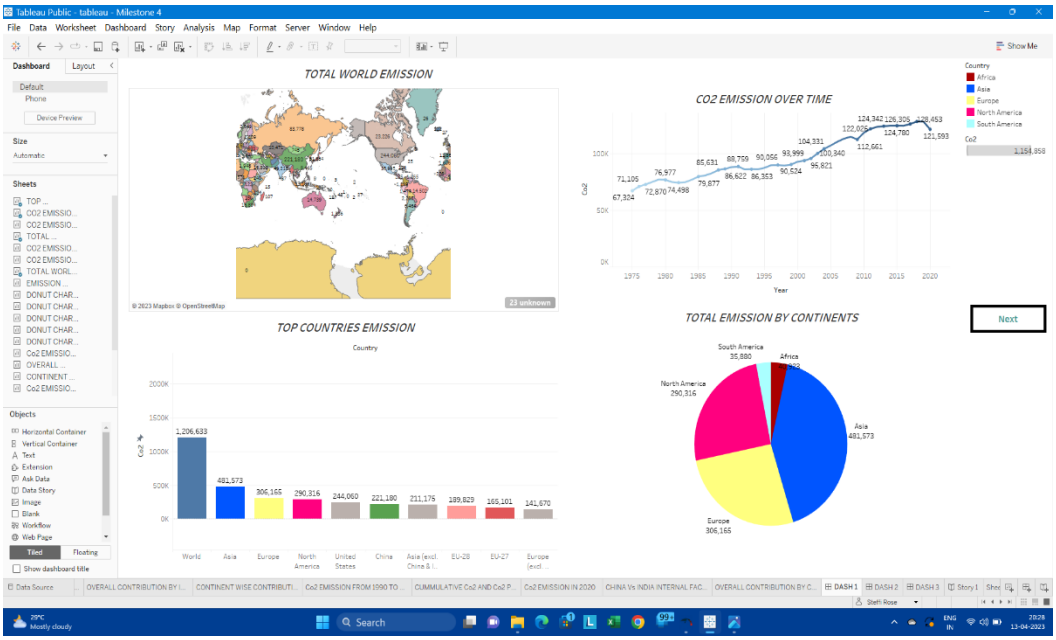
\ https://drive.google.com/file/d/182WPOemqJ3G42ejTbElarrC-ySqDEbMx/view?usp=share_link



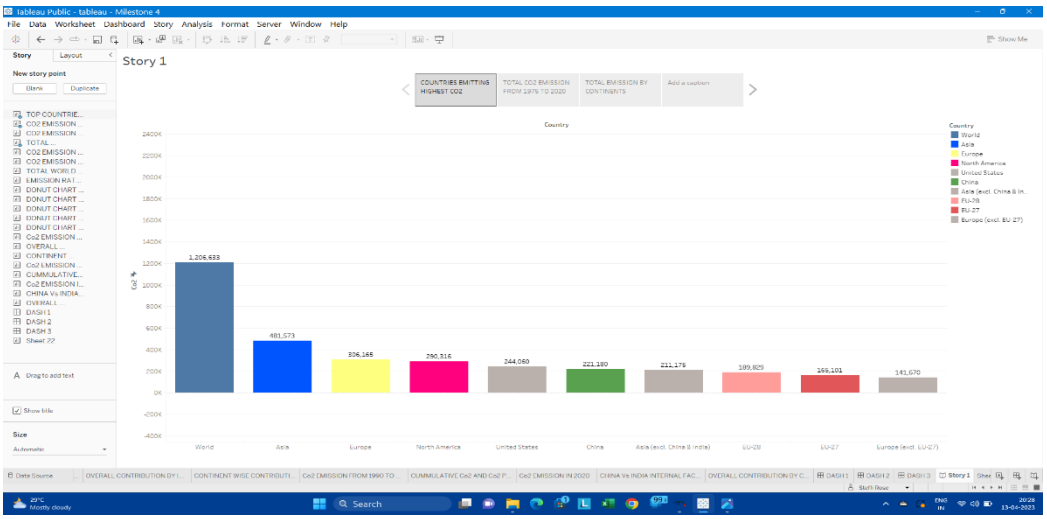

# 3. DASHBOARD

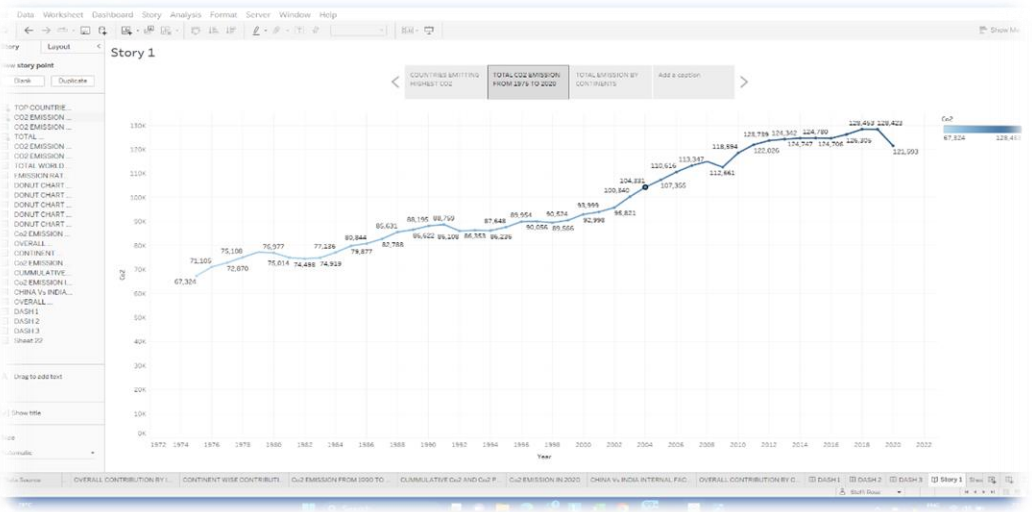


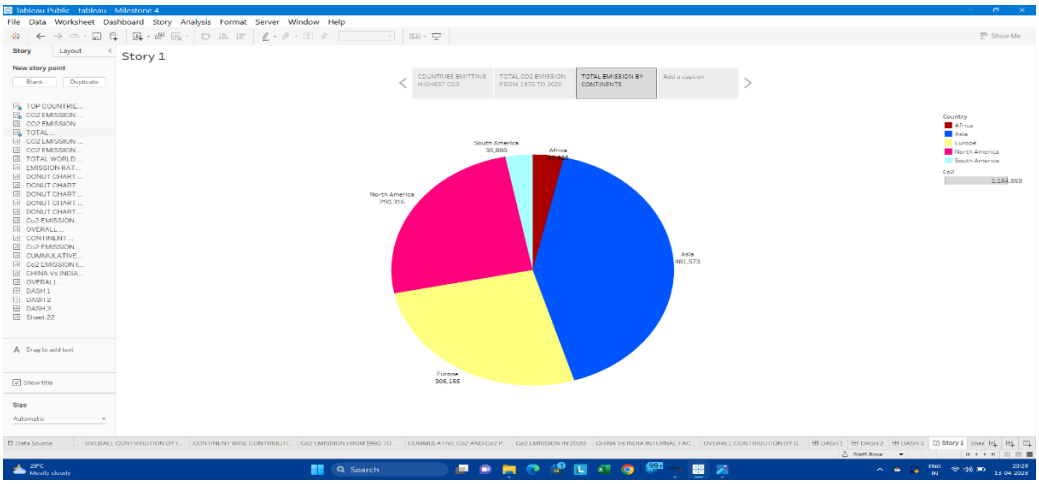

CONTINENTS WISE CONTRIBUTION BY INTERNAL FACTORS
CUMMULATIVE CO2 AND CO2 PER CAPITA OVER YEARS
CO2 EMISSION FROM 1990 TO 2020 BASED ON INTERNAL FACTORS
CO2 EMISSION IN 2020
Home

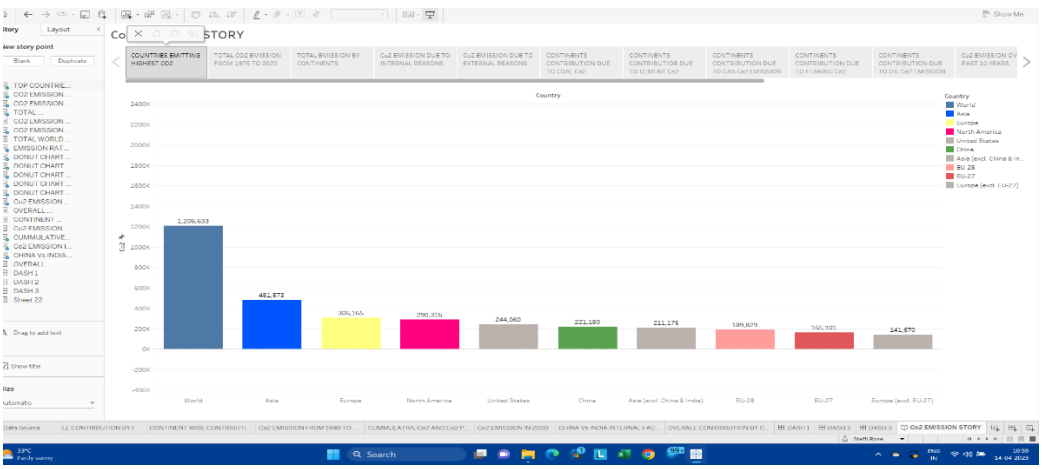

TOTAL WORLD EMISSION
CO2 EMISSION OVER TIME
TOP COUNTRIES EMISSION
TOTAL EMISSION BY CONTINENTS
Next

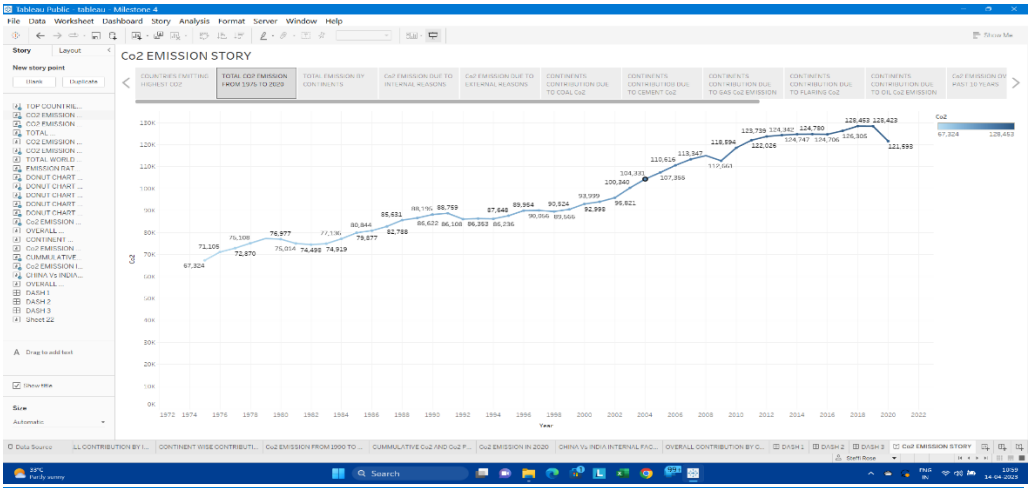
# STORY

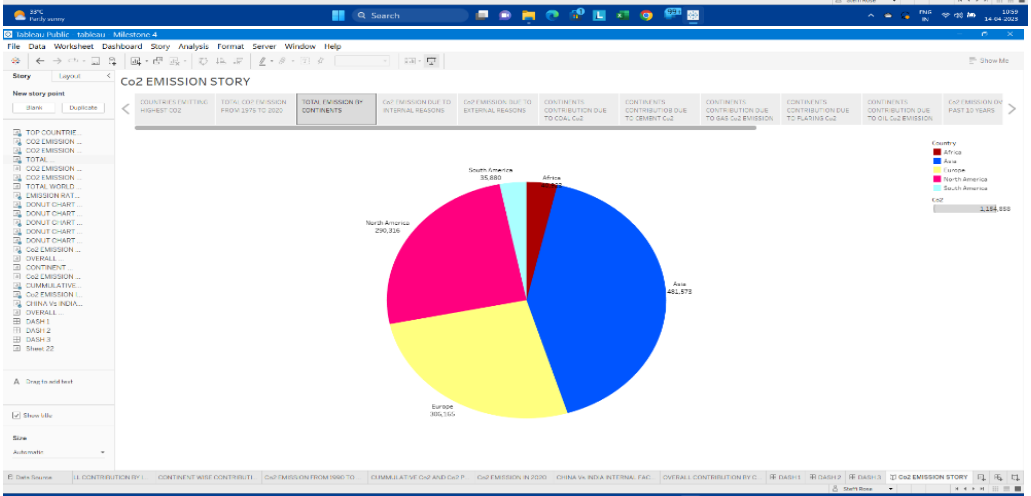

Story 1

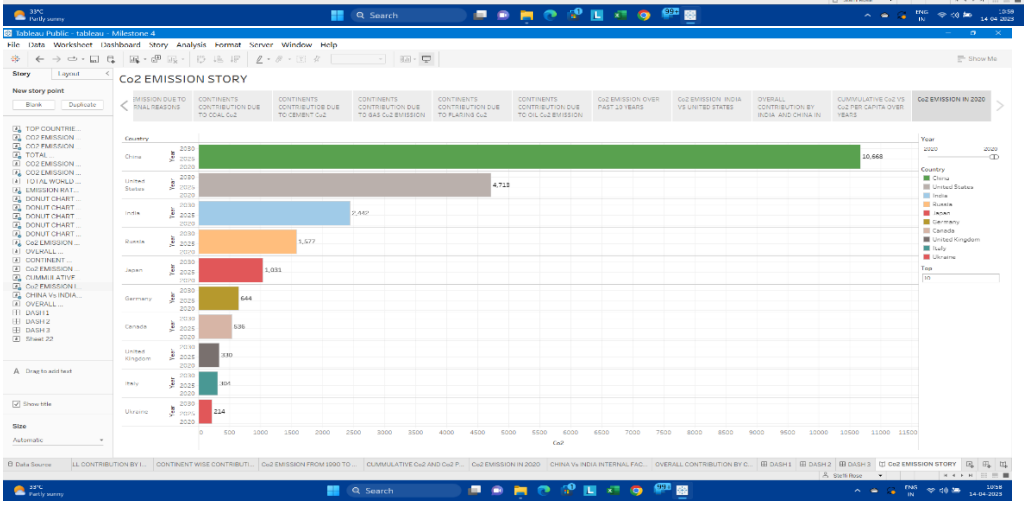

Story 1
TOTAL CO2 EMISSION FROM 1975 TO 2020
Co2
Year

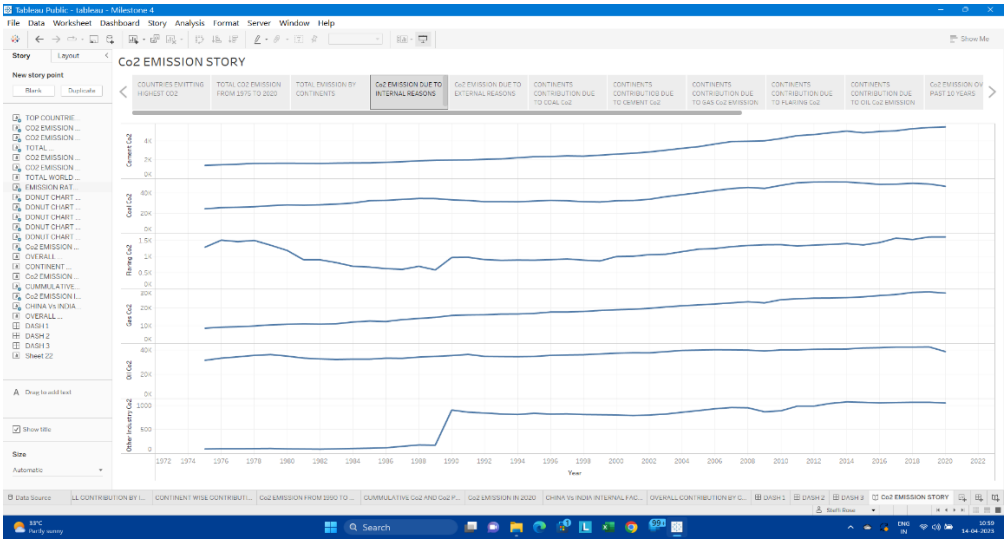

Story 1
TOTAL EMISSION BY CONTINENTS
South America 35,880
Africa
North America 750,316
Asia 461,573
Europe 306,166
Country

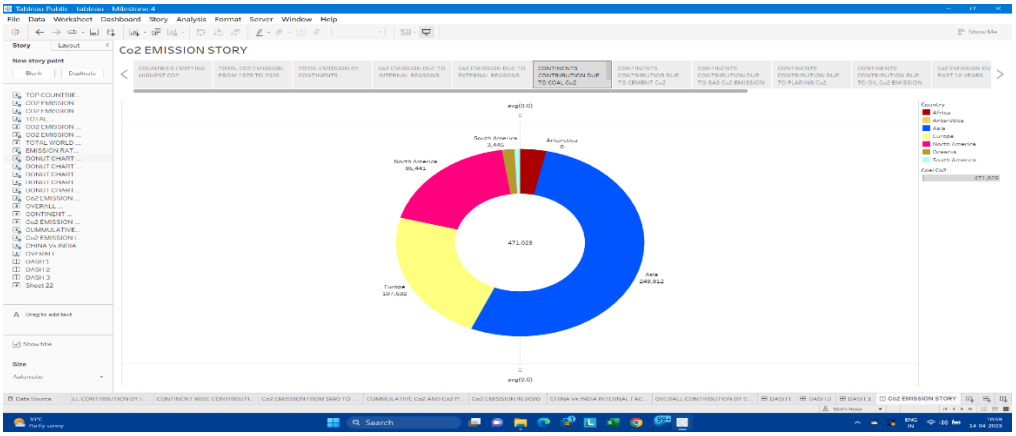

STORY
COUNTRIES EMITTING HIGHEST CO2
Country
Co2
1,206,633
481,573
306,166
290,316
244,060
221,180
211,175
189,679
165,101
141,670
World
Asia
Europe
North America
United States
China
EU-28
EU-27

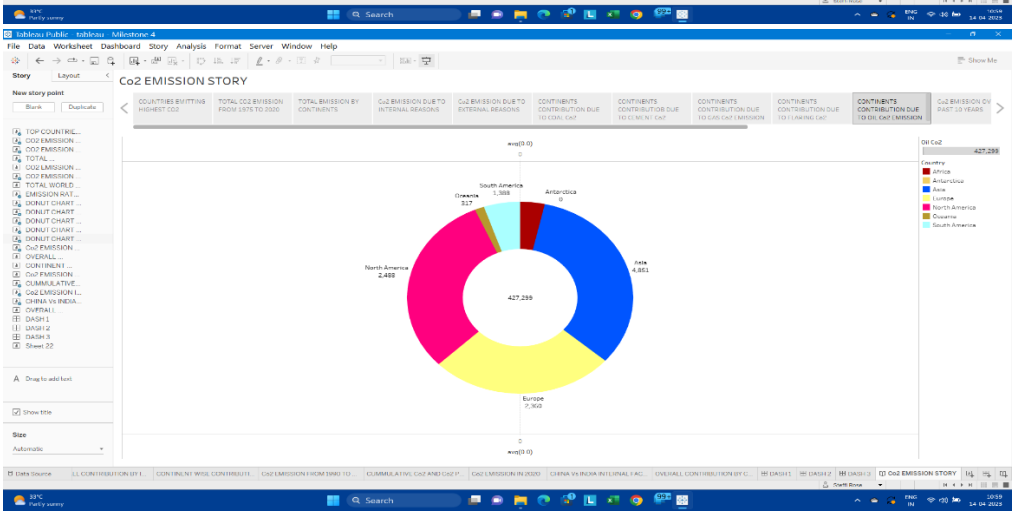

Co2 EMISSION STORY
Year
Co2

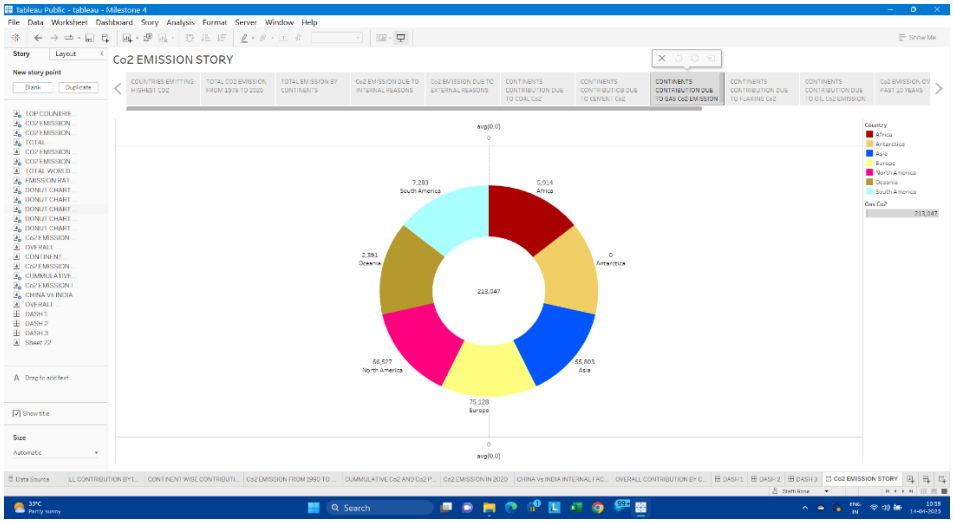

Co2 EMISSION STORY
Asia
481,573
Europe
North America
South America
Country

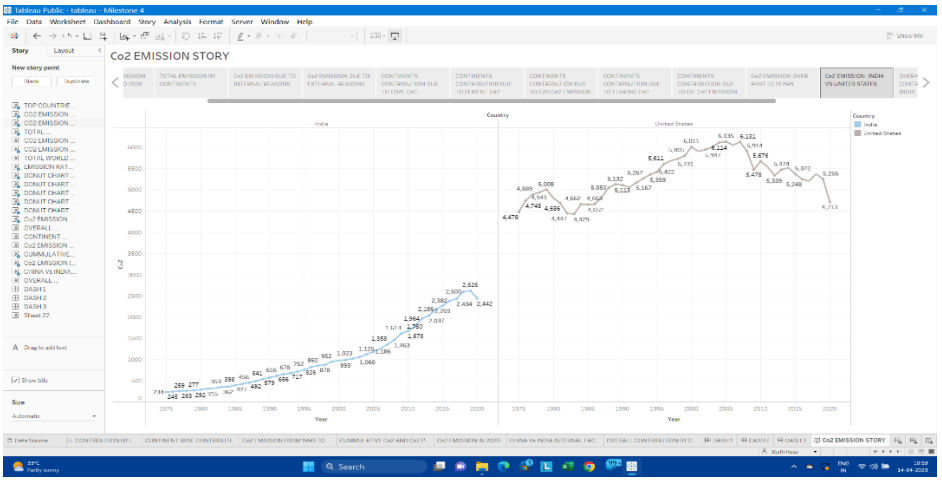

Co2 EMISSION STORY
China
10,668
United States
4,713
India
2,442
Russia
1,577
Japan
1,031
Germany
644
Canada
536
United Kingdom
330
Italy
301
Ukraine
214
Co2

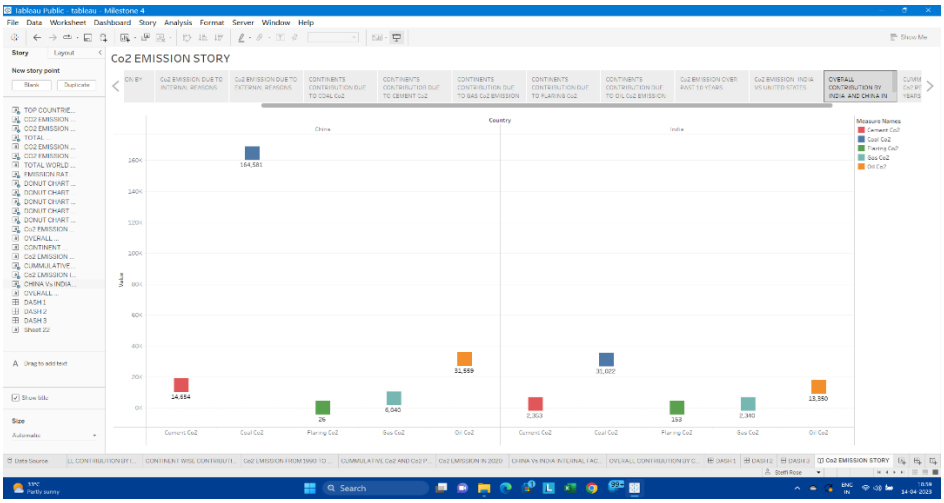

Co2 EMISSION STORY
Cement Co2
Coal Co2
Flaring Co2
Gas Co2
Oil Co2
Other Industry Co2
Year


Co2 EMISSION STORY
South America
3,445
Antarctica
0
North America
89,441
471,028
Asia
249,912
Europe
107,402


Co2 EMISSION STORY
South America
1,388
Antarctica
0
Oceania
317
North America
2,488
427,299
Asia
4,851
Europe
7,363


Co2 EMISSION STORY
7,283
South America
5,914
Africa
0
Antarctica
2,391
Oceania
218,047
66,619
North America
55,803
Asia
75,109
Europe


Co2 EMISSION STORY
India
United States
Country
Year


Co2 EMISSION STORY
China
India
Country
164,581
14,614
26
6,040
31,659
2,363
31,022
159
2,340
15,380

## 4. ADVANTAGES AND DISADVANTAGES

### GLOBAL WARMING

#### ADVANTAGES

- Scope of more plant growth and milder climates in some frozen regions of the earth such as Siberia, Antarctic, and the Arctic.
- Fewer injuries or decrease death rate as a result of arctic conditions.
- The next ice ages can be possibly prevented.
- Longer growing seasons can correspond to increased agricultural production in a few.
- Formerly untapped gas and oil reserves can be made available.

#### DISADVANTAGES

- Higher sea levels lead to flooding of low lands. Islands and coastlines are engulfed by water leading to death and disease due to flooding.
- Less sea ice, warmer water, and increased acidity are catastrophic for krill which forms the base of the ocean's food web and feeds whales, seals, fish and penguins.

- The plight of polar bears due to the loss of arctic ice is well documented, but at the other end of the globe.
- Deserts become drier, leading to increased desertification, resulting in border conflicts in already water scares areas.
- Starvation, malnutrition, and increased deaths result from food and crop shortages.

## 5. APPLICATIONS

- Carbon dioxide in solid and in liquid form is used for refrigeration and cooling. It is used as an inert gas in chemical process, in the storage of carbon powder and in fire extinguishers.
- Metals Industry: Carbon dioxide is in the manufacture of casting to enhance their hardness.
- Dry ice pellets are used to replace sand blasting when removing paint from surfaces. It aids in reducing cost of disposal and clean up.
- Large quantities are used as raw material in the chemical process industry, especially for methanol and urea production.
- Flash is removed from rubber objects by tumbling them with crushed dry ice in a rotating drum.
- Carbon dioxide is used as an additive to oxygen for medical use as respiration stimulant.