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1.INTRODUCTION

1.1 OVER VIEW

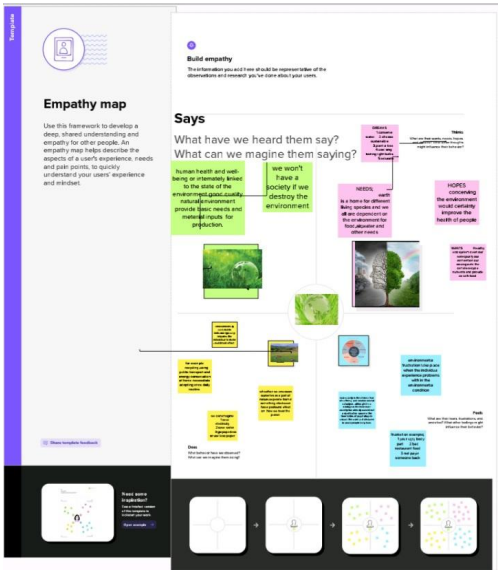
Carbon dioxide is a chemical compound made up of molecules that each have one carbon atom covalently double bonded to two oxygen atoms. It is found in the gas state at room temperature, and as the source of available carbon in the carbon cycle, atmospheric CO_2 is the primary carbon source for life on Earth.

2.2 PURPOSE

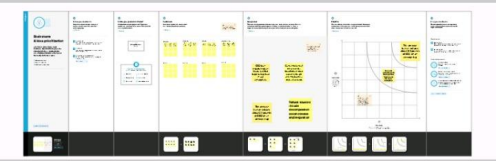
Carbon dioxide is an important greenhouse gas that helps to trap heat in our atmosphere. Without it, our planet would be inhospitably cold. However, an increase in CO2 concentrations in our atmosphere is causing average global temperatures to rise, disrupting other aspects of Earth's climate.

2. PROBLEM DEFINITION

2.1 EMPATHY MAP



2.2 BRAINSTORMING MAP



3. RESULT

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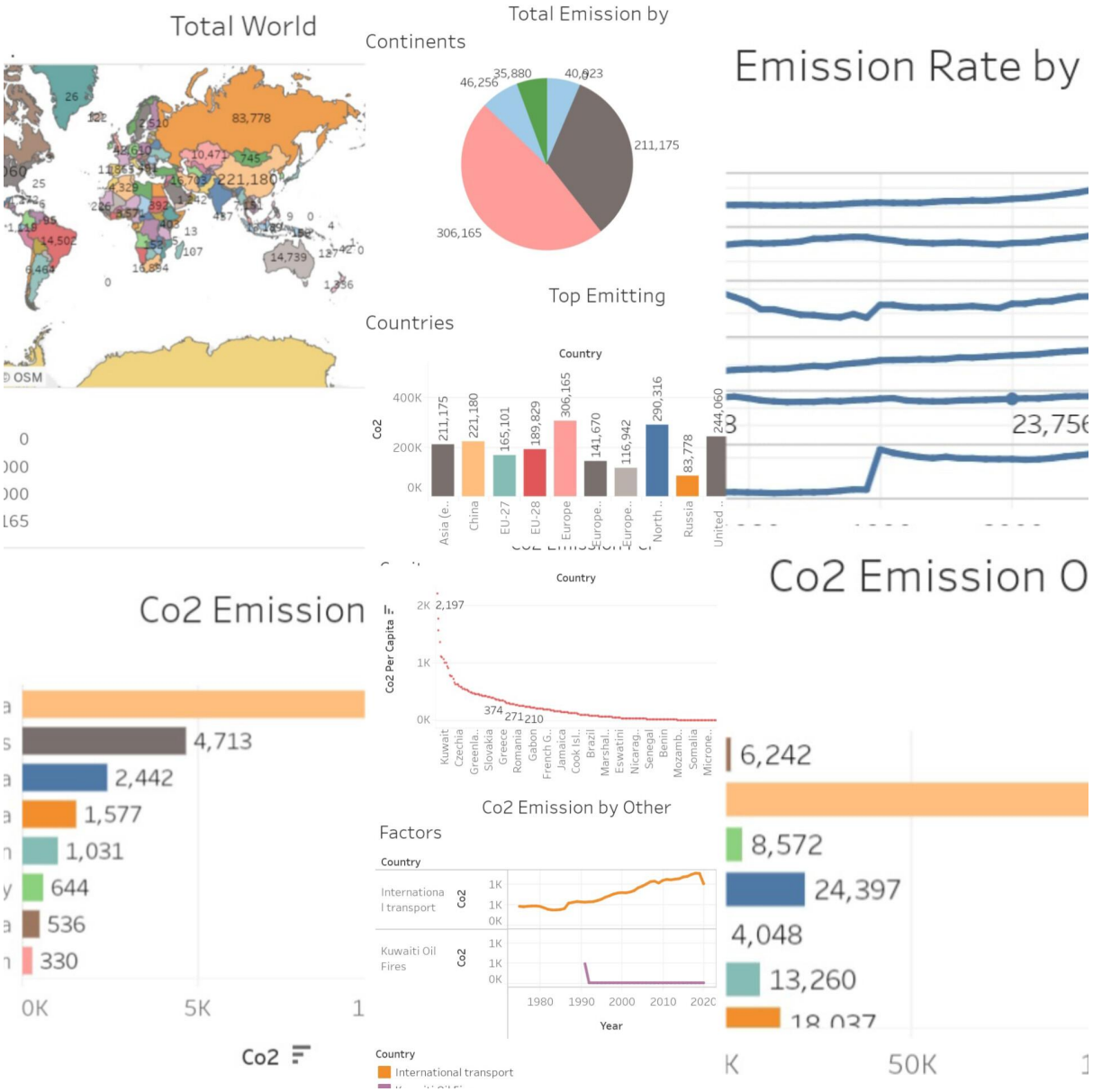
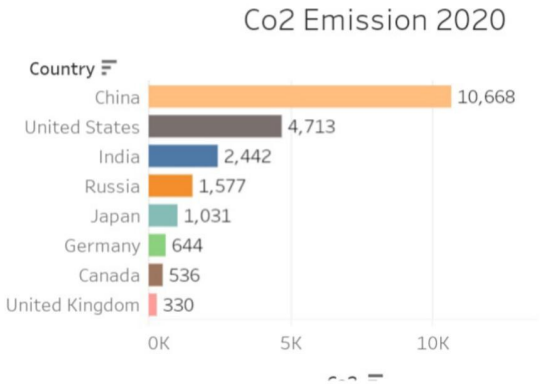
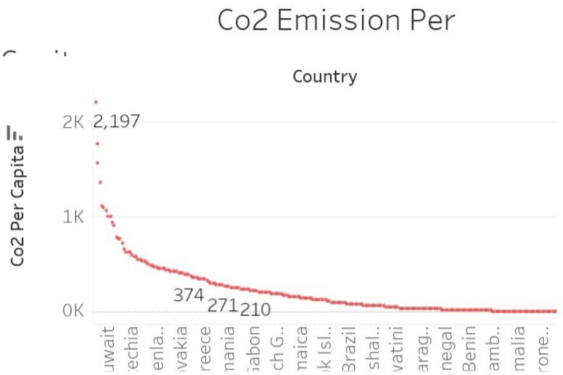
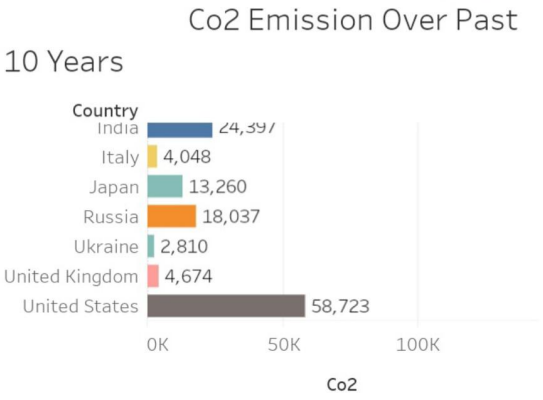


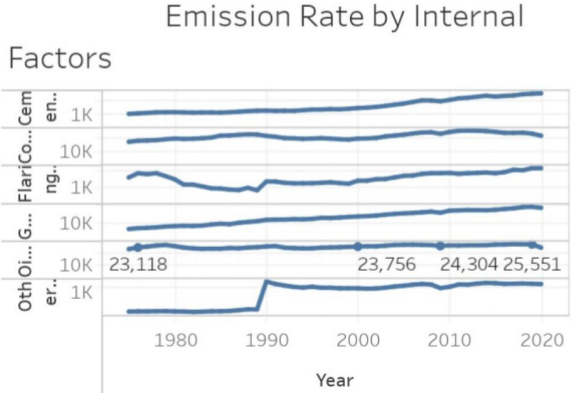
Dashboard 2



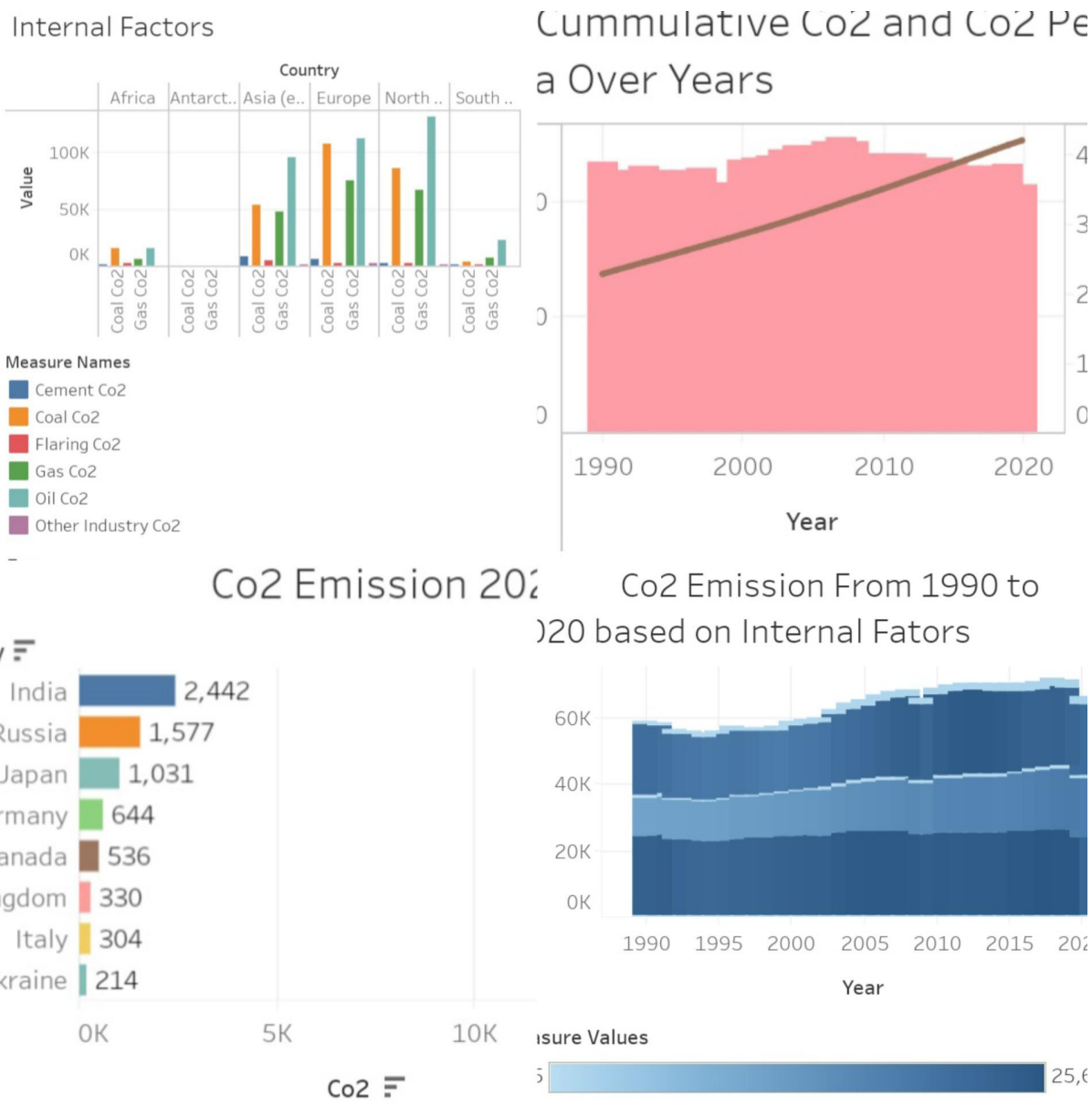


Co2 Emission by Other Factors



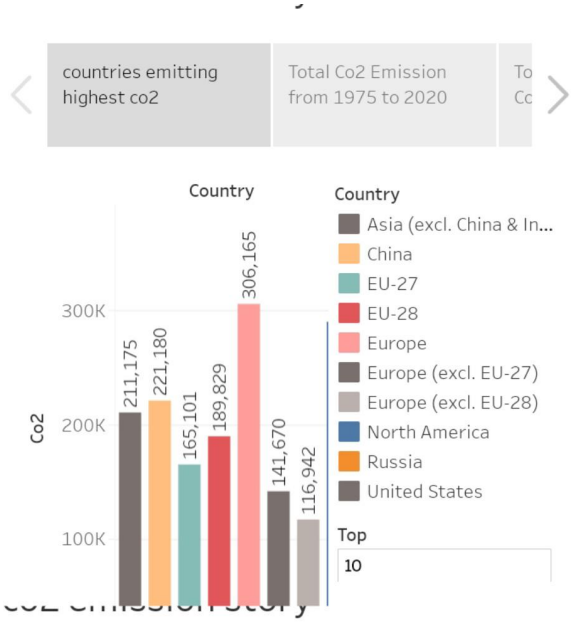


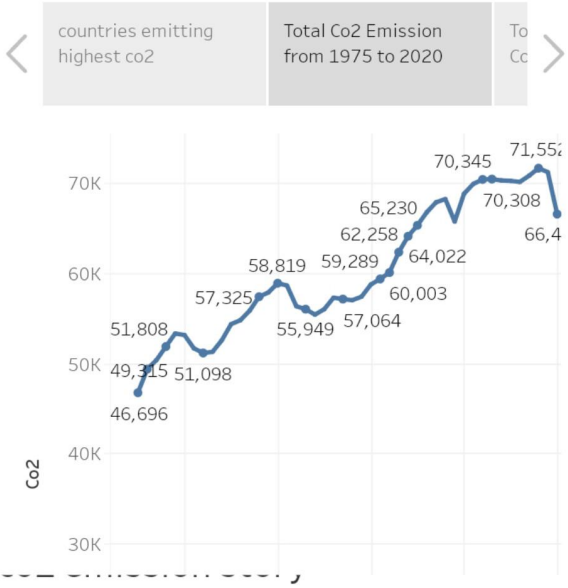
Dashboard 3

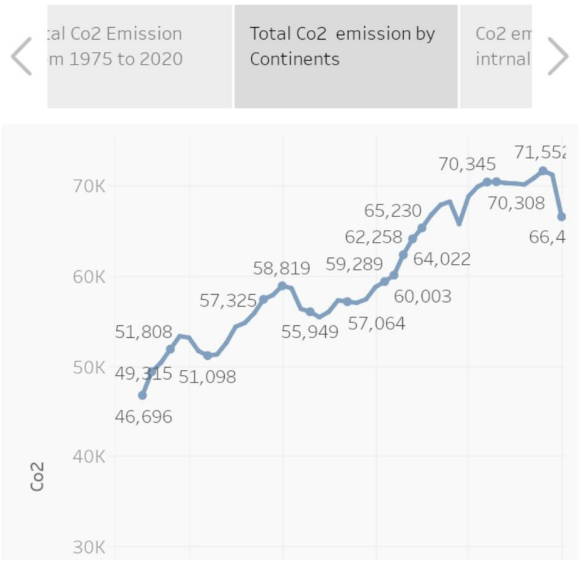

Internal Factors
Country
Africa
Antarct..
Asia (e..
Europe
North ..
South ..
Value
100K
50K
0K
Coal Co2
Gas Co2
Measure Names
Cement Co2
Coal Co2
Flaring Co2
Gas Co2
Oil Co2
Other Industry Co2
Cummulative Co2 and Co2 Pe
a Over Years
1990
2000
2010
2020
Year
Co2 Emission 20
India 2,442
Russia 1,577
Japan 1,031
644
536
330
Italy 304
214
0K
5K
10K
Co2
Co2 Emission From 1990 to
020 based on Internal Fators
60K
40K
20K
0K
1990
1995
2000
2005
2010
2015
Year
isure Values
25,6

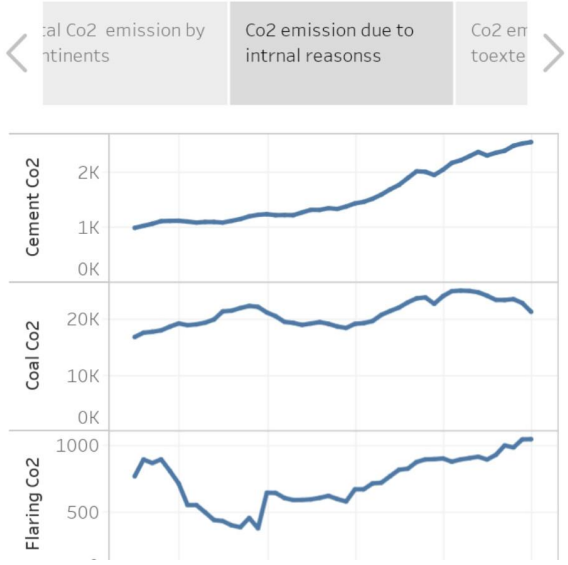
Story

Co2 Emission Story

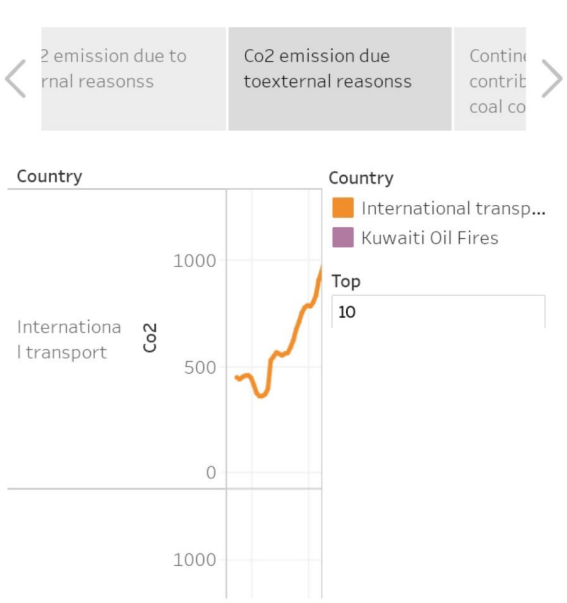


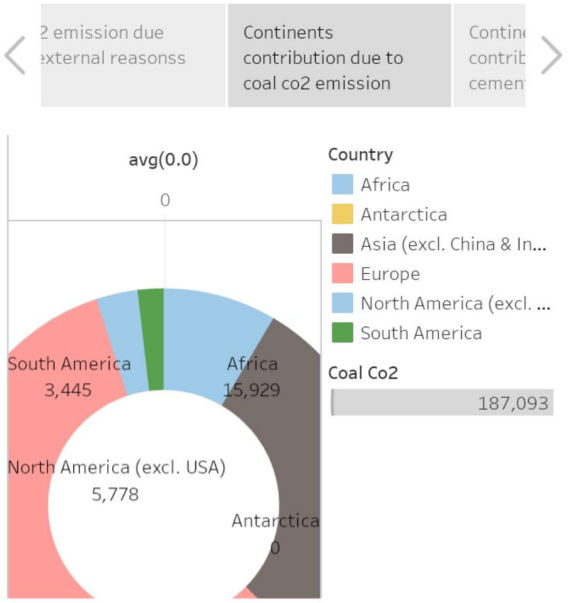


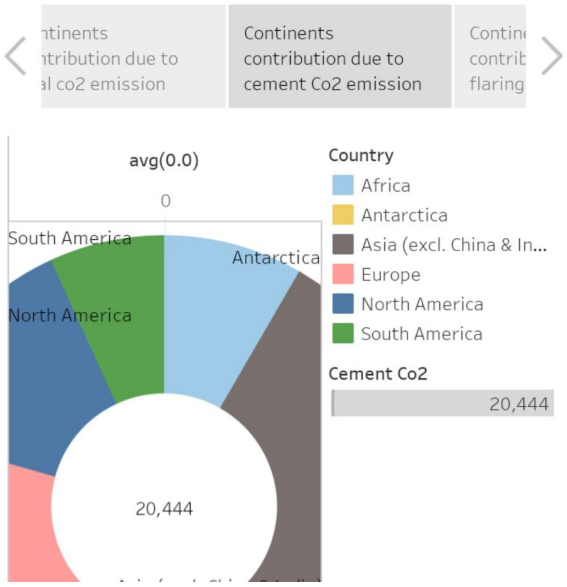


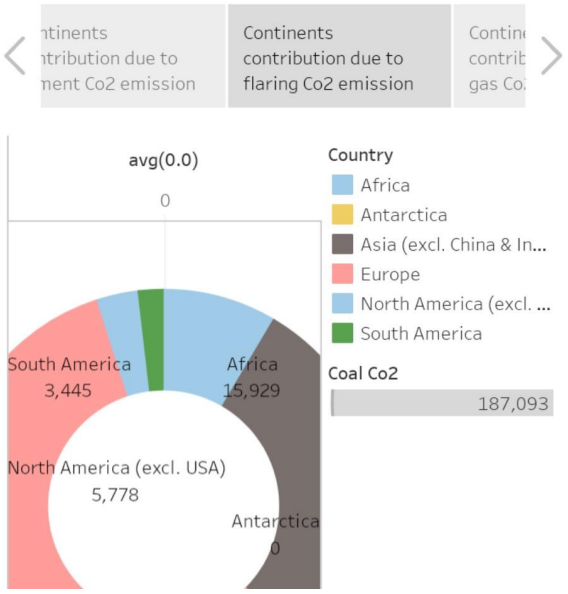


Co2 Emission Story









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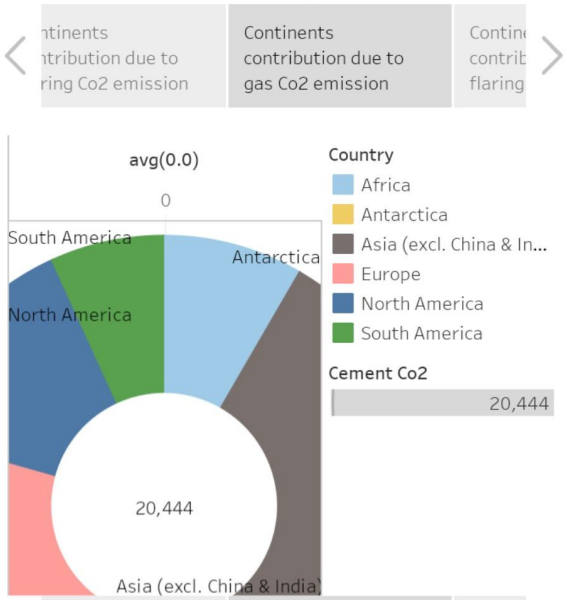
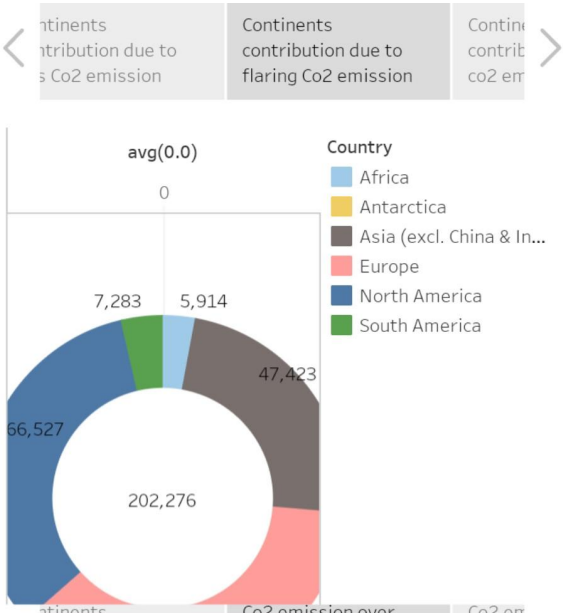
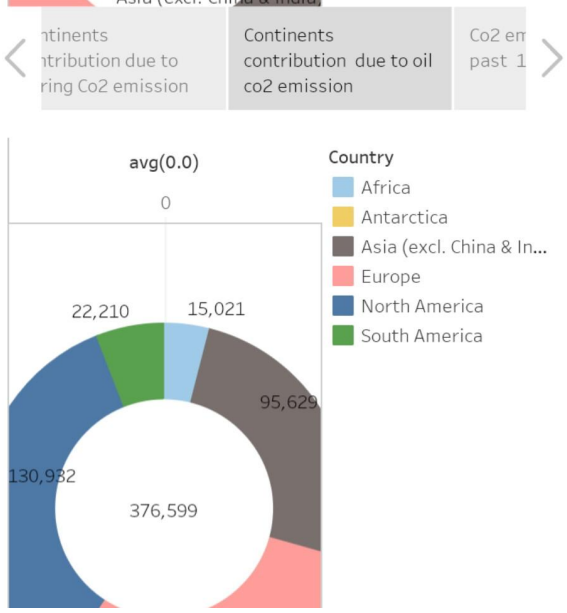
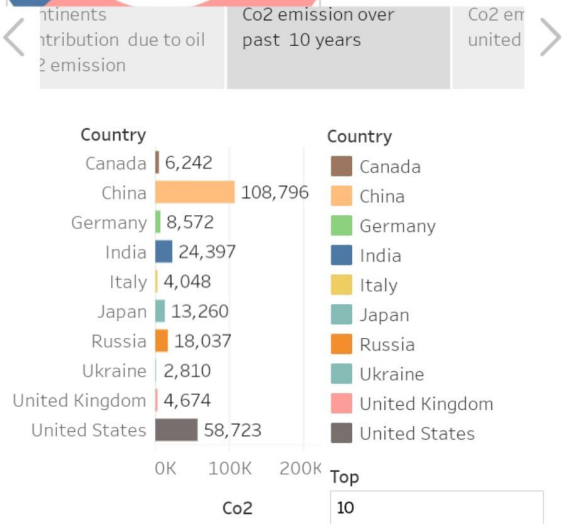
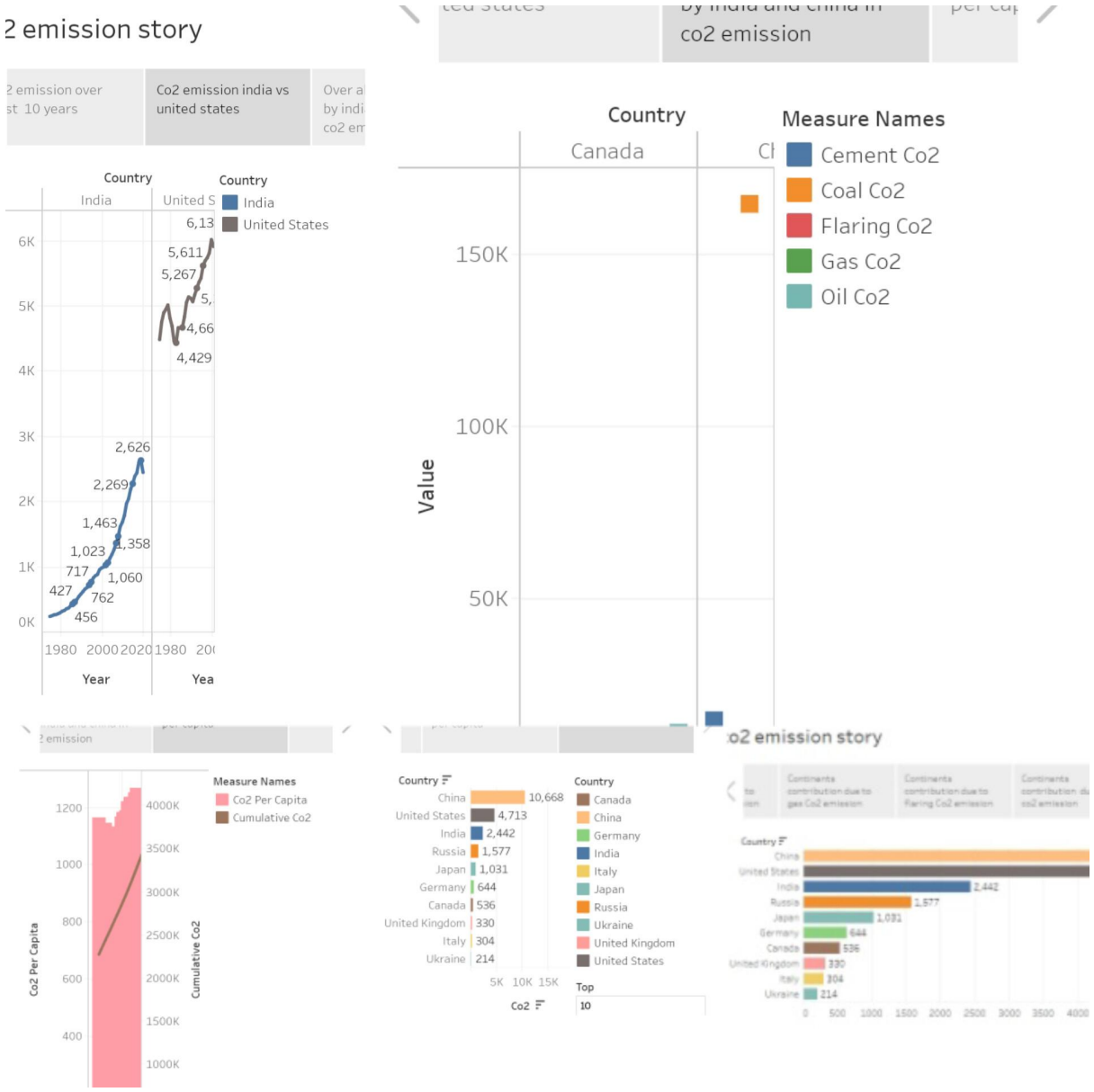








Co2 Emission Story



4. ADVANTAGES

- **Green plants grow faster with more CO_2. Many also become more drought-resistant because higher CO_2 levels allow plants to use water more efficiently.**
- **More abundant vegetation from increased CO_2 is already apparent.**
- **Carbon dioxide is essential for internal respiration in a human body. Internal respiration is a process, by which oxygen is transported to body tissues and carbon dioxide is carried away from them. Carbon dioxide is a guardian of the pH of the blood, which is essential for survival.**

DISADVANTAGES

- **These may include headaches, dizziness, restlessness, a tingling or pins or needles feeling, difficulty breathing, sweating, tiredness, increased heart rate, elevated blood pressure, coma, asphyxia, and convulsions.**
- **The primary downside to CCS technology is the additional expense it adds to energy production and the unknown impacts of storage in the long term.**
- **Carbon dioxide (CO2) released into the oceans as a result of water pollution by nutrients — a major source of this greenhouse gas that gets little public attention — is enhancing the unwanted changes in ocean acidity due to atmospheric increases in Co2**

APPLICATIONS

- **Carbon dioxide in solid and in liquid form is used for refrigeration and cooling.**
- **It is used as an inert gas in chemical processes, in the storage of carbon powder and in fire extinguishers.**
- **Metals Industry: Carbon dioxide is used in the manufacture of casting molds to enhance their hardness.**

CONCLUSION

"The rising level of atmospheric CO_2 could be the one global natural resource that is progressively increasing food production and total biological output, in a world of otherwise diminishing natural resources of land, water, energy, minerals, and fertilizer.