# UNEARTHING THE ENVIRONMENTAL IMPACT OF HUMAN ACTIVITY: A GLOBAL CO2 EMISSION ANALYSIS

# **INTRODUCTION:**

#### **Overview:**

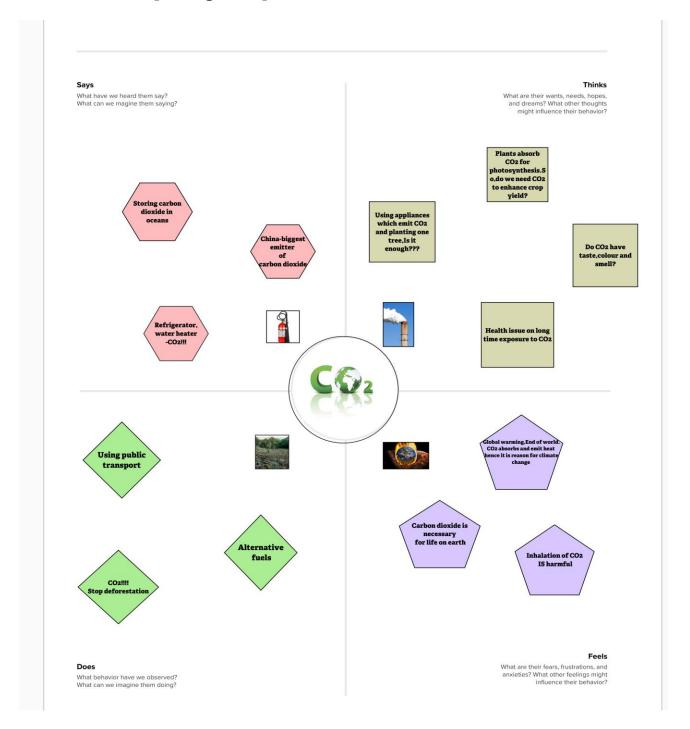
Global warming is one of the biggest challenges currently being faced by the human race, although correlation is not causation, a likely cause of global warming is due to increased atmospheric carbon dioxide from human activities. **CO2 Emission** refers to the Carbon Dioxide emitted throughout the world. For this analysis we will be focusing on CO2 Emissions and its effect on the world we live in as well as some key factors and stats that may play a role in the emission of CO2 globally. Fossil fuel use is the primary source of CO2. The data throws light onto how much fossil fuels are burnt, per year per nation, which amounts to an increase in CO2 every year. This will help researchers and environment experts to predict global warming. So countries should set a goal to decrease this amount yearly.

# **Purpose:**

The use of this project is to find the ways to minimize CO2 emission and to find the factors that emit CO2. From this project one can find the top emitting countries of CO2 and can take the effective measure accordingly. One can achieve a pollution free environment by knowing all the pros and cons from this project.

# **PROBLEM DEFINITION AND DESIGN THINKING:**

# **Empathy map:**



#### **BRAINSTORMING MAP:**



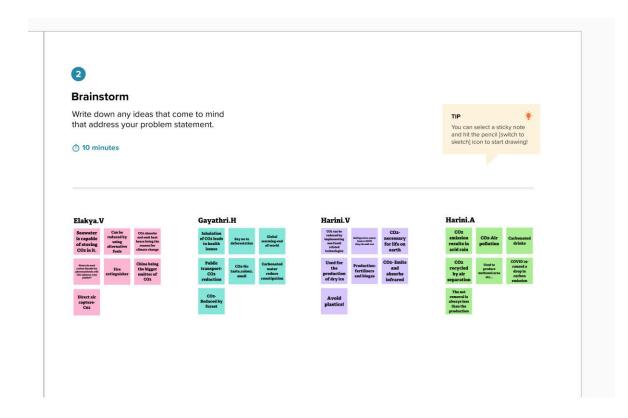
#### Define your problem statement

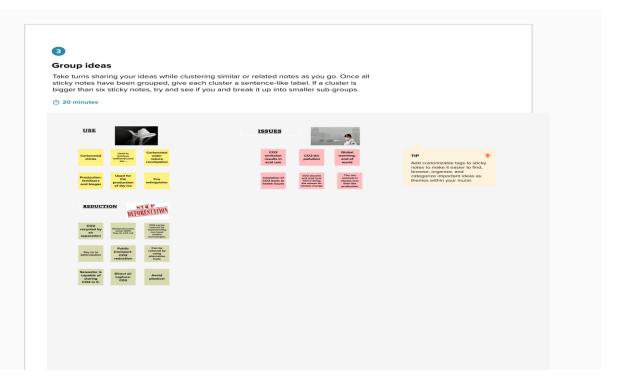
What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

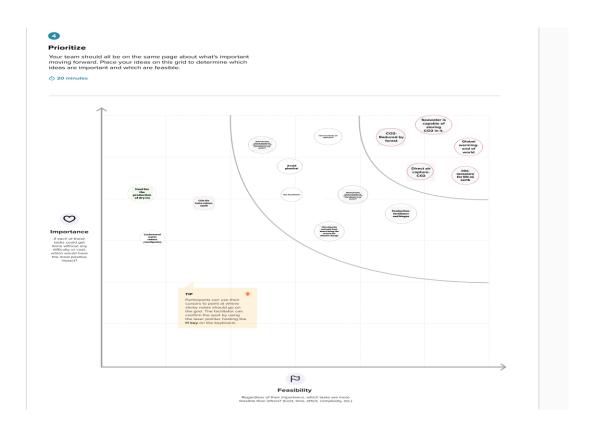
5 minutes

How CO2 emission can be controlled?

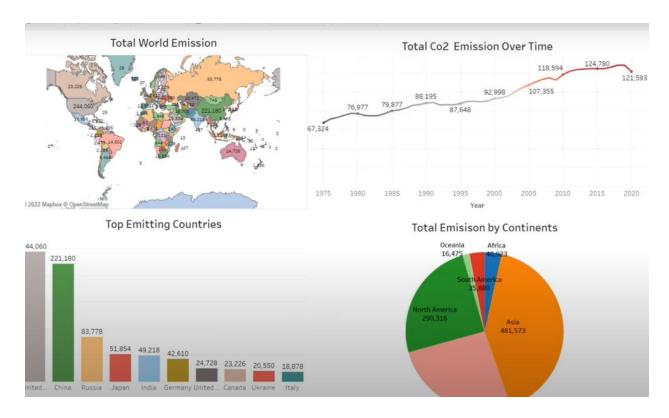




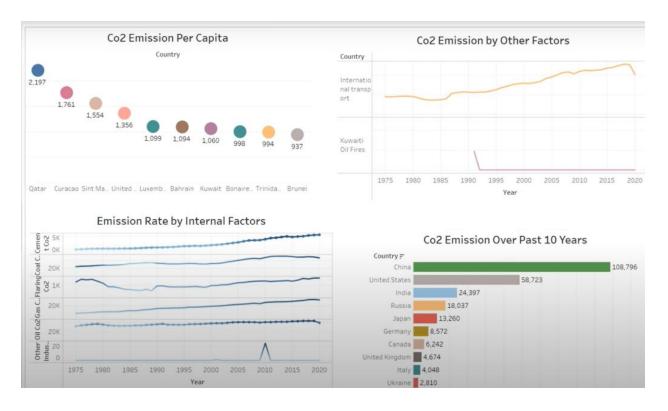




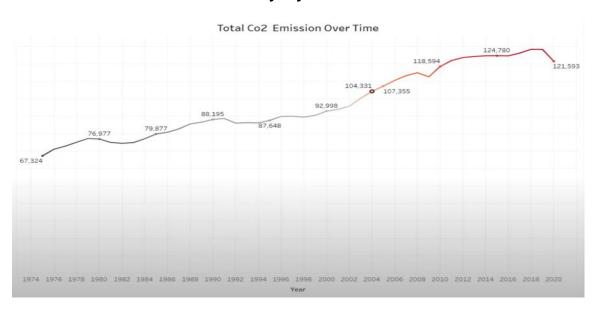
#### **RESULT:**



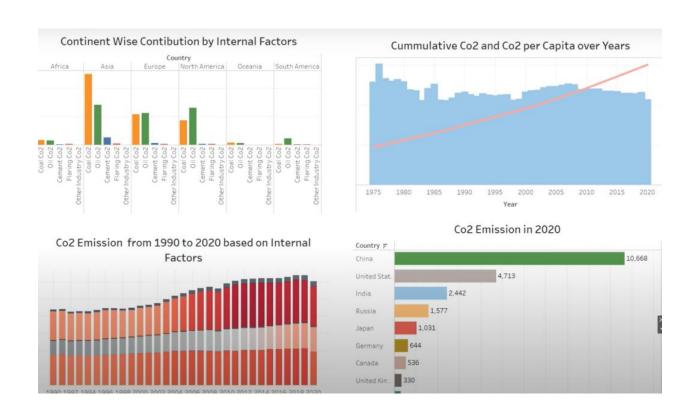
China being the top country to emit CO2 due to the coal burning and coal mining in its production and consumption terms. China opened the coal power plants in 2020. It emits 27% of global CO2. United states stays in the second place. The source of emission in united states is from burning fossil fuels for electricity, heat and transportation. India stays in the third place. In India coal power plants, rice paddies and cattle are the major source of emission. Russia is in the fourth position, where the CO2 emission is mostly from fossil gas, oil and coal.



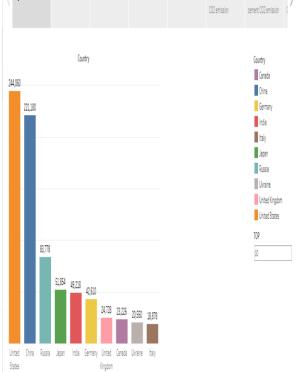
This is the overall contribution by India in CO2 emission where the CO2 emission is mostly by coal CO2 and oil CO2.



This is the visualization on total CO2 emission over time .It is clearly seen that it increases with time.

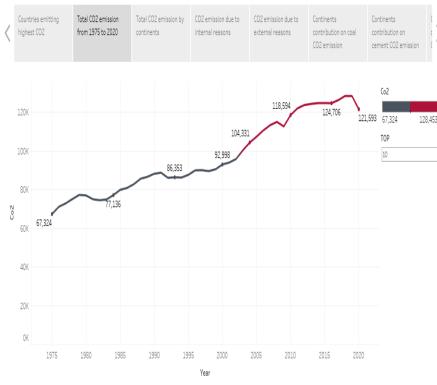


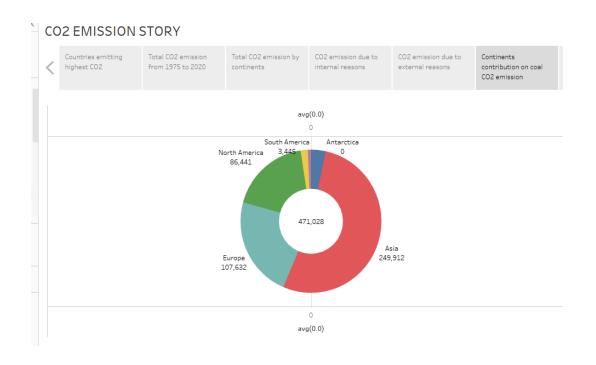
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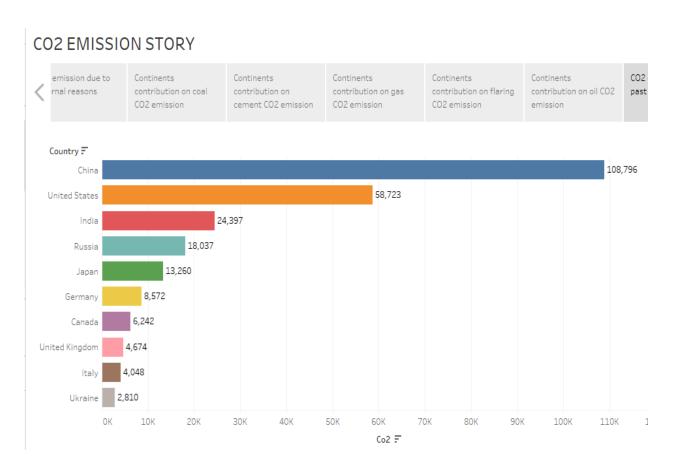


# **STORY**

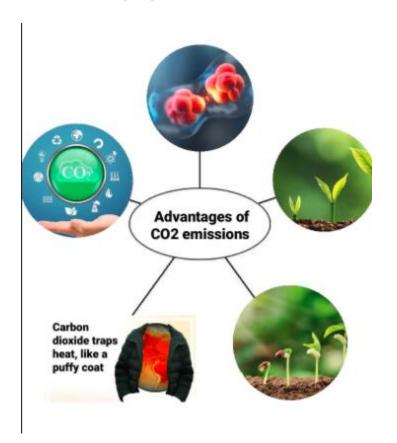
#### CO2 EMISSION STORY







# **ADVANTAGES:**



- -Carbon dioxide is an important green house gas that helps to trap heat in our atmosphere
- -Photosynthesis, a biochemical process by which plants and some microbes create food
  - -Green plants grow faster with more CO2
  - -Non flammable CO2 is used in some fire extinguishers

# **DISADVANTAGES:**



- -They can increase the risk of heart and respiratory diseases
  - -ozone is the major factor causing asthma
  - -They are responsible for climate change

**APPLICATION:** It has the application that industry gets to know the serious effect of CO2 and work in such a way that they do not pollute the environment

# **CONCLUSION**

CO2 emission has some adverse effect in environment which include health issue, climate change that leads to global warming etc.. Even though it has negative effects it also have advantages which include plant growth, used in extinguishers, and helps to trap heat in our atmoshphere.

# **FUTURE SCOPE:**

CO2 capture and storage is possible in future generation with technologies.

