UNEARTHENING THE ENVIRONMENTAL IMPACTS OF HUMAN ACTIVITY ; A GLOBAL CO2 EMISSION ANALYSIS

INTRODUCTION

1. 1 OVERVIEW

Increase in CO2 emission level in the atmosphere has become a greatest challenge to deal with in the modern world . Unearthing the environmental impacts of human activity a global CO emission analysis is a project that aims to provide a extensive overview of the CO2 emission produced by human activity.

The project involves gathering data on CO2emisson from various sources including industrial process transportation, energy production etc., for past 45 years and then providing a visualization of this data .

The project also create an awareness about the environmental impact of CO2 emission and its urgent need for measures to control the CO2 emission overall this analysis is an important initiative to make people understand the environmental impacts and the urgent needs for its control of CO2 emission.

1.2 PURPOSE

The outcomes (visualization) can be applied in various sectors

* INCREASE AWARENESS : This analysis provide a comprehensive overview of the impact of CO2 emission this rises an awareness among the individuals on the need to control it .

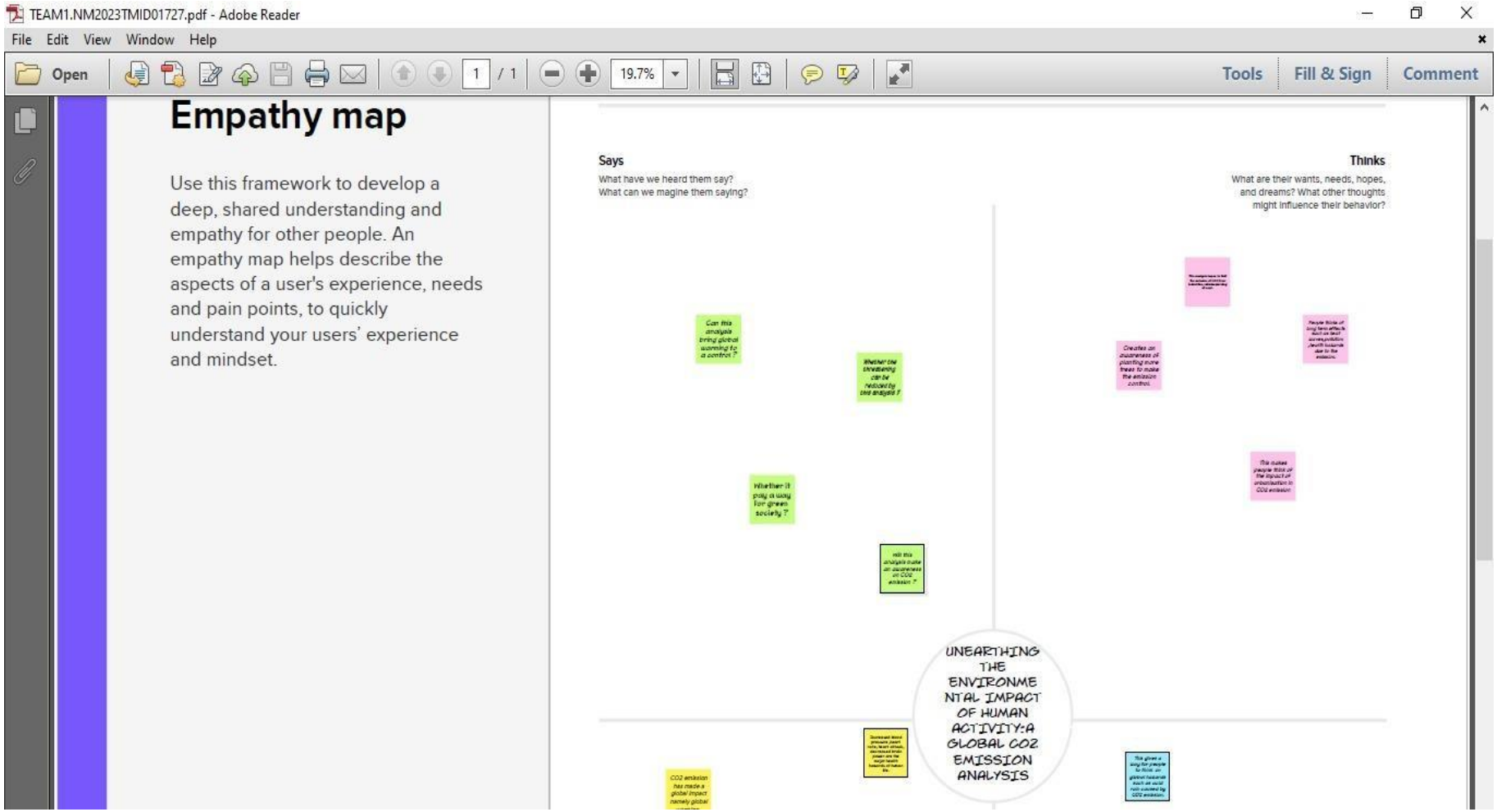
* ACCOUNTABILITY : This project can hold countries and companies accountable for their carbon emission. The data can be used to track progress and identity areas where improvements are needed .

* INNOVATION : This analysis can stimulate innovation and the development of new technologies that are more environmental friendly companies can invest in clean energy and sustainable practices which can create new jobs and boost economics growth.

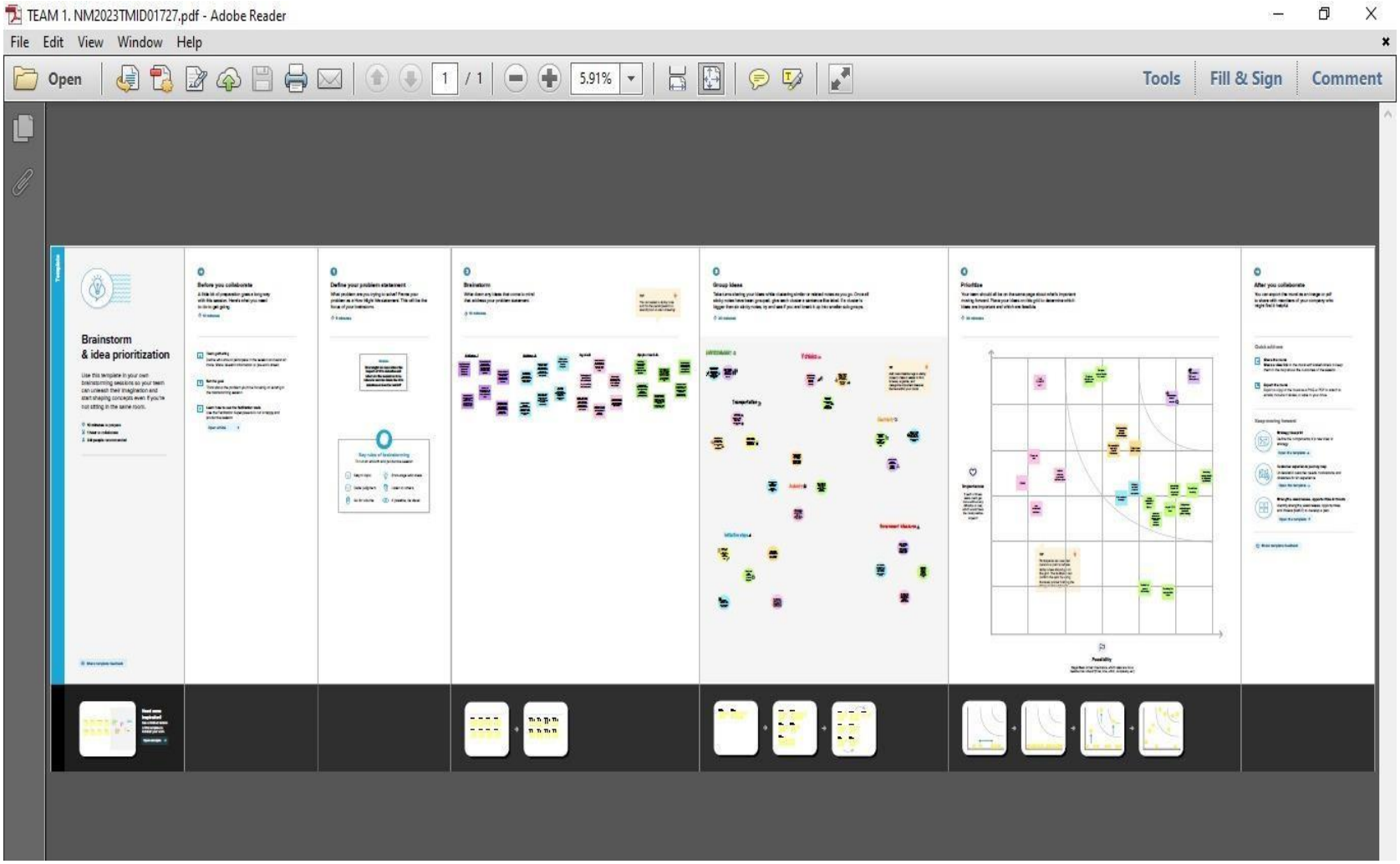
There are some of the purpose and importance of this analysis, overall the project provides a comprehensive overview of global CO2 emission and promotes awareness and action towards the measures to control these emissions.

PROBLEM DEFINITION AND DESIGN THINKING

EMPATHY MAP

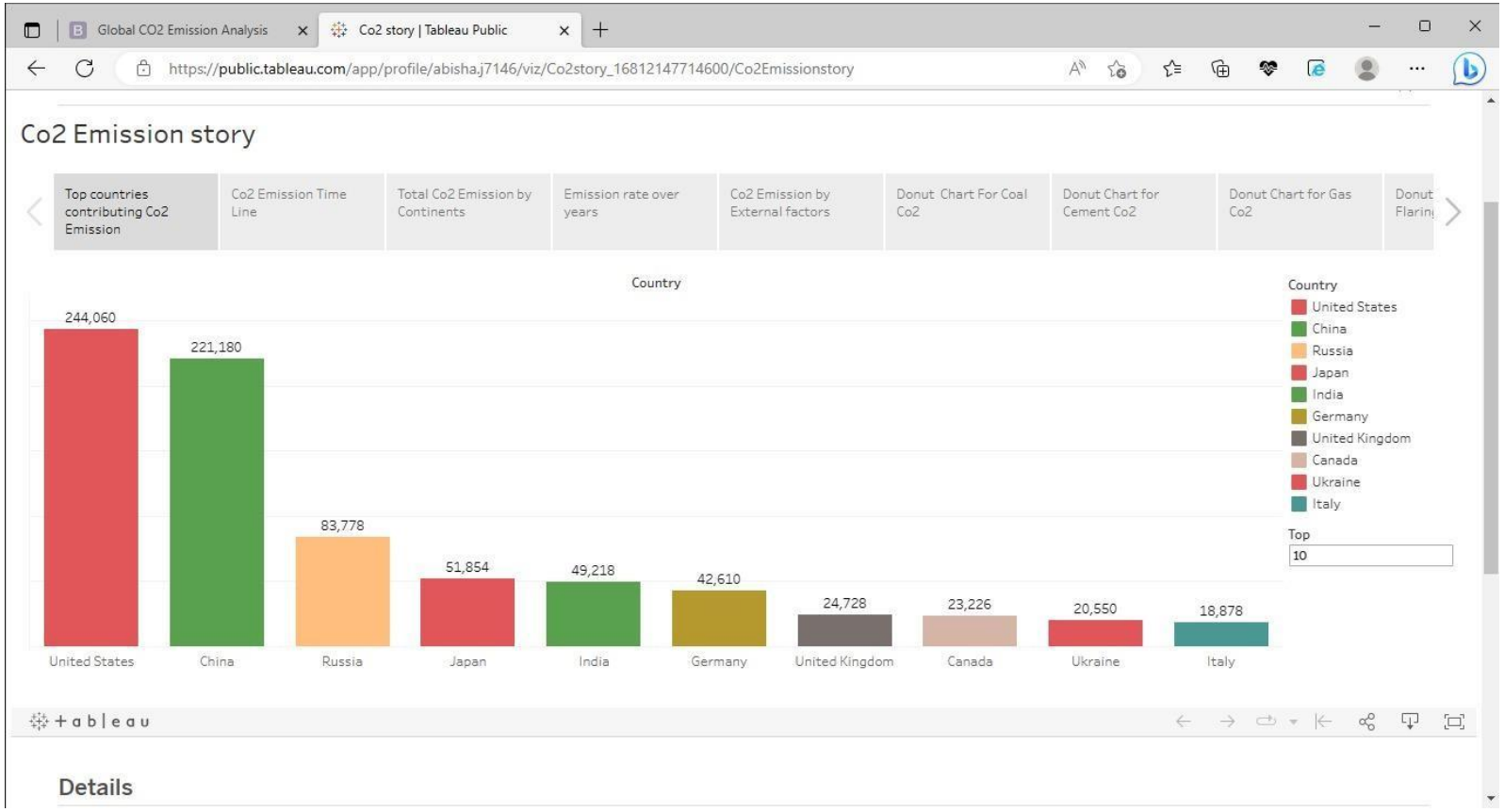


BRAINSTORMING :

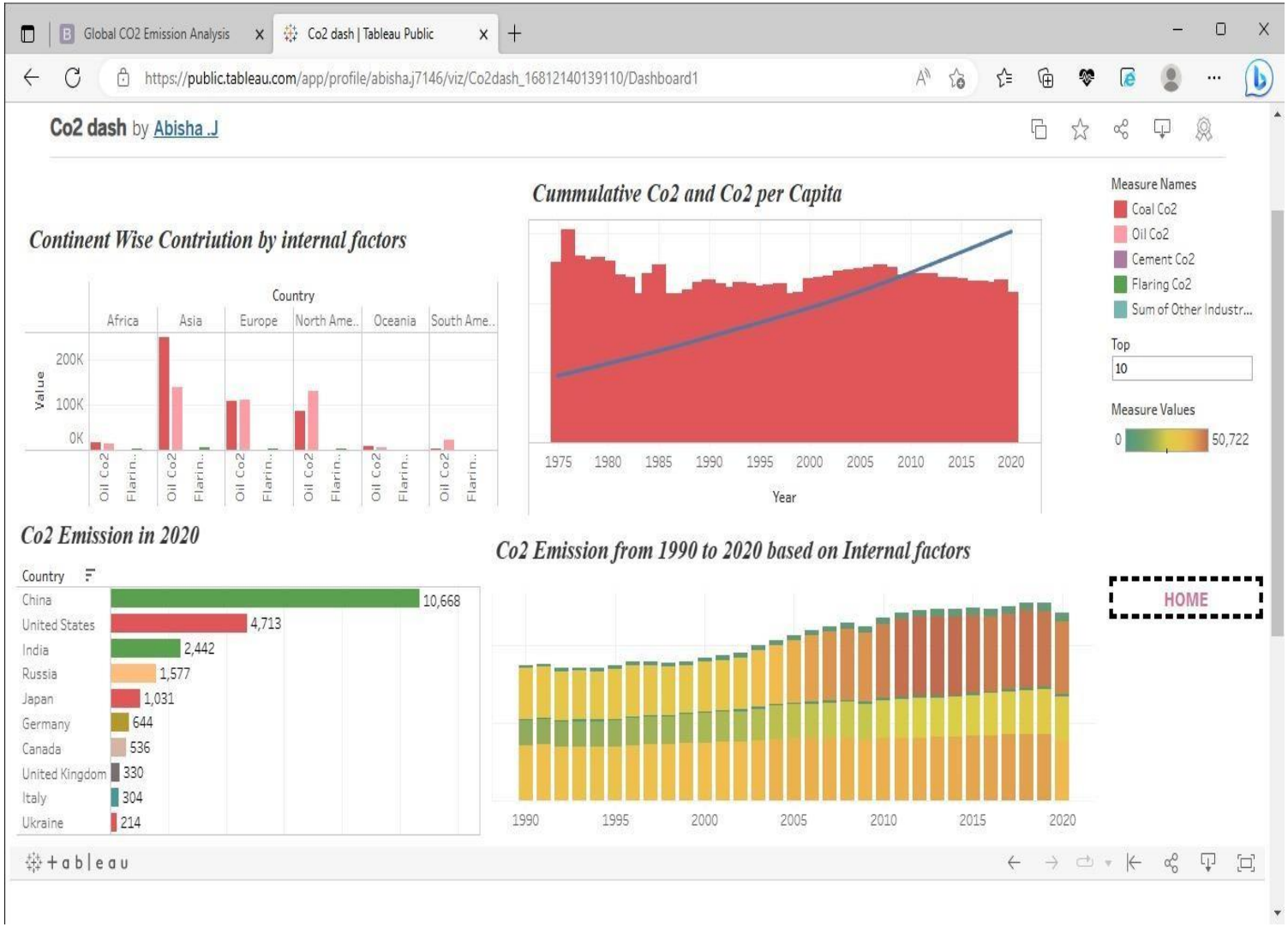


RESULT

STORY



DASHBOARD


Global CO2 Emission Analysis
Co2 dash | Tableau Public
https://public.tableau.com/app/profile/abisha.j7146/viz/Co2dash_16812140139110/Dashboard1
Co2 dash by Abisha .J
Continent Wise Contriution by internal factors
Country
Africa
Asia
Europe
North Ame..
Oceania
South Ame..
Value
200K
100K
0K
Oil Co2
Flarin..
Cummulative Co2 and Co2 per Capita
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Year
Measure Names
Coal Co2
Oil Co2
Cement Co2
Flaring Co2
Sum of Other Industr...
Top
10
Measure Values
0
50,722
Co2 Emission in 2020
Country
China 10,668
United States 4,713
India 2,442
Russia 1,577
Japan 1,031
Germany 644
Canada 536
United Kingdom 330
Italy 304
Ukraine 214
Co2 Emission from 1990 to 2020 based on Internal factors
1990
1995
2000
2005
2010
2015
2020
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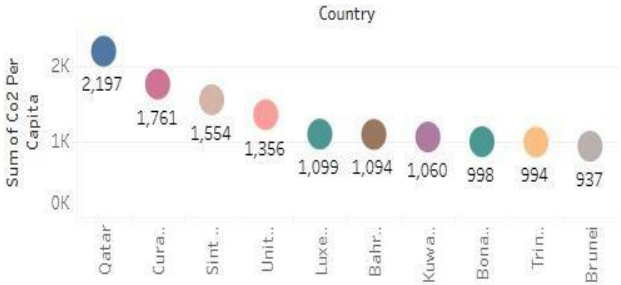
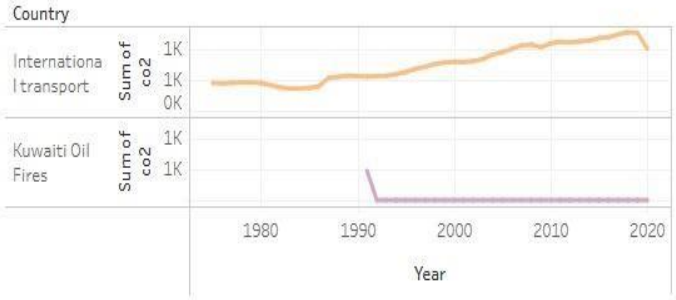
Co2 Emission Per Capita



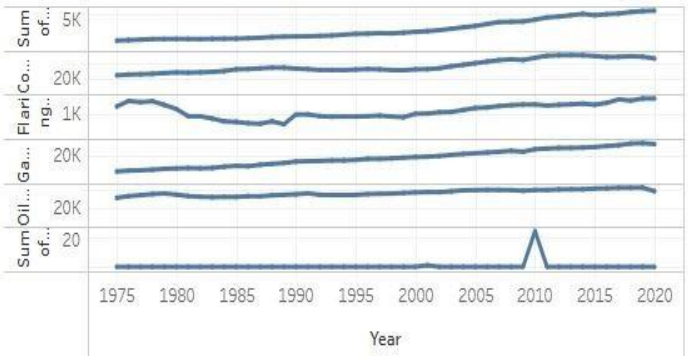
Co2 Emission by International factors



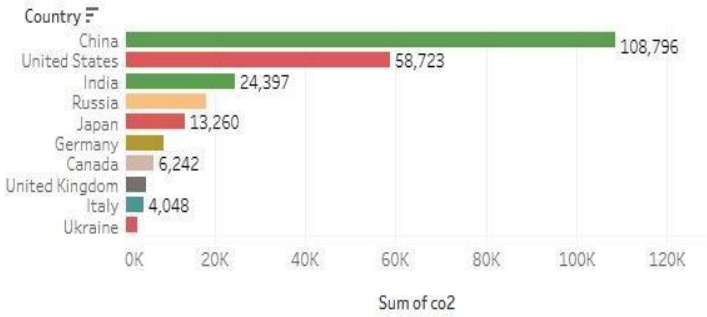
Top
10

Country
China
United States
India
Russia
Japan
Germany
Canada
United Kingdom
Italy
Ukraine

Emission Rate by Internal factors



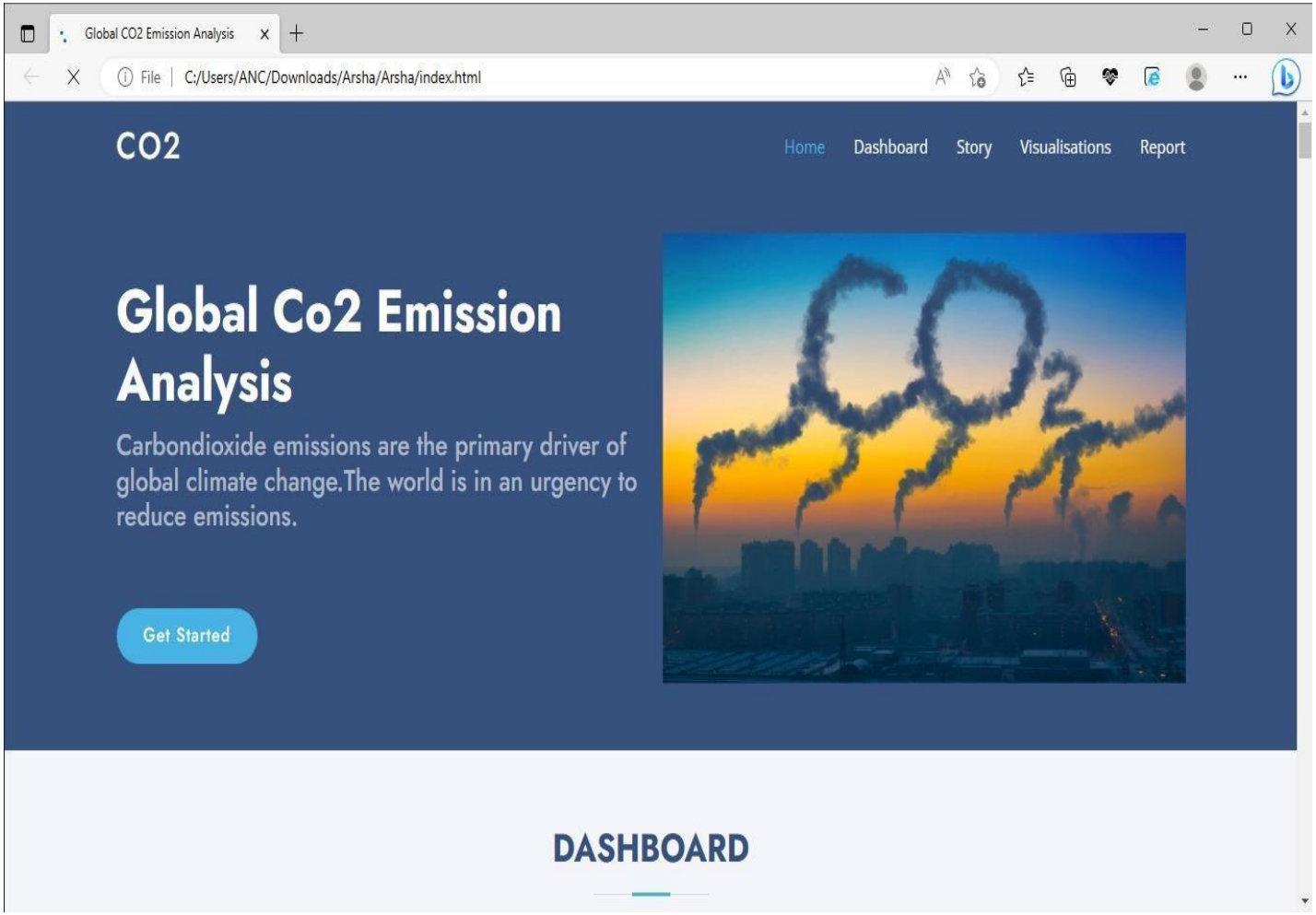
Co2 Emission over past 10 years



PREVIOUS

NEXT

WEB PAGE


Global CO2 Emission Analysis
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CO2
Home
Dashboard
Story
Visualisations
Report
Global Co2 Emission Analysis
Carbondioxide emissions are the primary driver of global climate change.The world is in an urgency to reduce emissions.
Get Started
DASHBOARD

Advantages:

1) Improve the air quality and human health.

2) Reduce the trap heat in atmosphere

3) Using electrical vehicles instead of fueled vehicles.

4) Modal shift from car to bicycle or public transport. In simple, "Drive less and Walk more".

5) He creates an awareness among people so reduce the CO_2 emission.

6) Using clean energy such as solar energy, wind energy, etc., makes the environment pollution free.

DISADVANTAGES :

1) New buildings will no longer be heated with natural gas is impossible with families below the poverty line.

2) Today 63.3% of global electricity relies on sources that emit CO2 and other greenhouse gases (GHGs).

3) While CO2 emissions are an essential factor in climate change, they are not the only environmental impact of human activity. Other factors such as deforestation, water pollution, and bio diversity loss can also have significant effects on the environment. A CO2 emissions analysis may not provide a complete picture of the environmental impact of human activity.

4) While CO2 emissions are an essential factor in climate change, they are not the only environmental impact of human activity. Other factors such as deforestation, water pollution, and bio diversity loss can also have significant effects on the environment. A CO2 emissions analysis may not provide a complete picture of the environmental impact of human activity.

5) A CO2 emissions analysis can provide valuable information about the amount of CO2 released into the atmosphere, but it may not provide context for why emissions are occurring or what actions can be taken to reduce them. Without this context, it may be challenging to develop effective solutions for reducing emission.

APPLICATION:

Education:

☆ The assignment can be used as an educational tool to teach students about the impact of human activity on the environment, particularly with regards to CO2 emissions.

☆The analysis can help students understand the extent of human activity that contributes to climate change and what measures can be taken to reduce emissions.

Policy-making:

☆The analysis can inform policy makers and governments about the extent of CO2 emissions and their impact on the environment. ☆This can help them make informed decisions and develop policies aimed at reducing emissions and mitigating climate change.

Corporate Sustainability:

☆Businesses can use the analysis to evaluate their own CO2 emissions and environmental impact.

☆This can help them develop sustainability goals and strategies aimed at reducing their carbon footprint and operating in an environmentally responsible manner.

Advocacy:

☆The assignment can be used to create awareness among the general public about the impact of human activity on the environment.

☆ The analysis can be shared through various mediums, such as social media, to encourage individuals to take action to reduce their own carbon footprint and make more sustainable choices.

Research:

☆The analysis can provide valuable data for researchers studying the impact of CO2 emissions on the environment.

☆The findings can be used to inform further research and develop new technologies aimed at reducing emissions and mitigating climate change.

International Cooperation:

☆ The analysis can provide a common ground for countries to work together towards mitigating climate change.

☆ The findings can inform international agreements and initiatives aimed at reducing global CO2 emissions.

Conclusion:

The Global Co2 emission analysis involves a wide analysis of Co2 emission. We have worked on worksheets where we gave charts and graphs regarding CO2 emission and made dashboard and story using the following charts.

- ☆ Total World Emission
- ☆ Top emitting countries
- ☆ Total CO2 emission overtime
- ☆ Total emission by continents
- ☆ CO2 emission by international factors
- ☆ CO2 emission over past 10 years
- ☆ Continent voice contribution by internal factors
- ☆ CO2 emission from 1990 to 2020 based on internal factors
- ☆ Cummulative CO2and CO2 per capita
- ☆ CO2 emission in 2020
- ☆ Overall contribution by China in CO2 emission.

By using data analytics tools we have observe the major contributors and factors all over the world.CO2 emission over past 10 years shows that China ranks first in CO2 emission followed by United States and India ranks third in this emission.

The internal factors include coal CO2,gas CO2, cement CO2, flaring CO2 and other industry CO2. By compressing the major factors and contributors of CO2 emission can pay a way to solve the people can make reduce the emission by switching to clean energy, implementation of carbon capture and storage and planting more trees.

Future scope:

By Analysing the data set we can make an aware of CO2 emission among people. People think of long term effect such as health hazards due to the emission. We can stand along with India's cabinet updated climate plan, including a 2070 net zero goal and 45% reduction in emission intensity by 2030. Sustainable heating in greenhouse horticulture. Implantation of activated charcoal fuels. Helping and supporting Indian organisations to be a " Carbon Neutral Company" under the carbon of set standard. Carbon stories in soil and vegetation through pilot programs for climate friendly land use. Public transportation or carpool can be encouraged. Usage of alternative sources of energy instead of fossil fuels. Reduce the emission gives a sustainable society.