

A GLOBAL CO2 EMISSION ANALYSIS

Project Report

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Introduction :

Overview

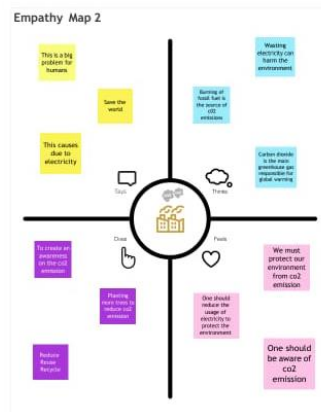
Global warming is one of the biggest challenges currently being faced by the human race, although correlation is not causation, a likely cause of global warming is due to increased atmospheric carbon dioxide from human activities. **CO2 Emission** refers to the Carbon Dioxide emitted throughout the world. 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

Analysing Global Co2 Emission across countries from 1975 to 2020. This dataset contains a record of Co2 Emission by each Country and Region of Earth, here we are going to analyse and visualise Country wise, Region wise and Overall Co2 Emission on Earth.

Problem Definition & Design Thinking

Empathy Map



Ideation and Brain Storming

Idea Bank

PERSON 1

Co2 emissions are emission stemming from the burning of fossil fuels

Co2 emission are produced during consumption of solid, liquid and gas

Carbon dioxide emissions are the primary driver of global climate change

PERSON 2

Majority of electricity comes from fossil fuels

40% of global co2 emissions are emitted from electricity

Global warming is a big problem for human as a whole

PERSON 3

Carbon dioxide is the main greenhouse gas responsible for global warming

Try to consume less to save the environment

Electricity, heat production and transportation are the sources of global co2 emissions

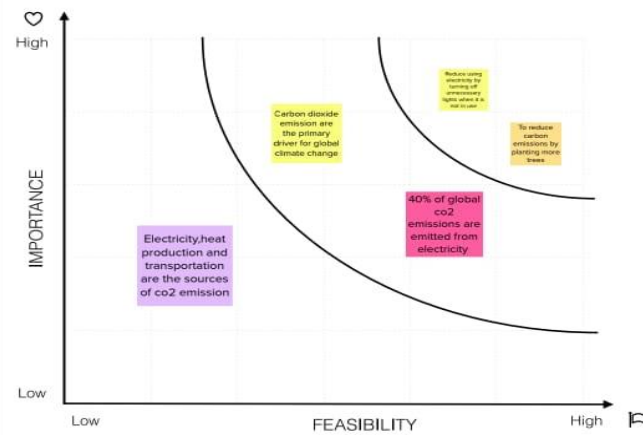
PERSON 4

To reduce carbon emission by planting more trees

Reduce using electricity by turning off unnecessary lights when it is not in use

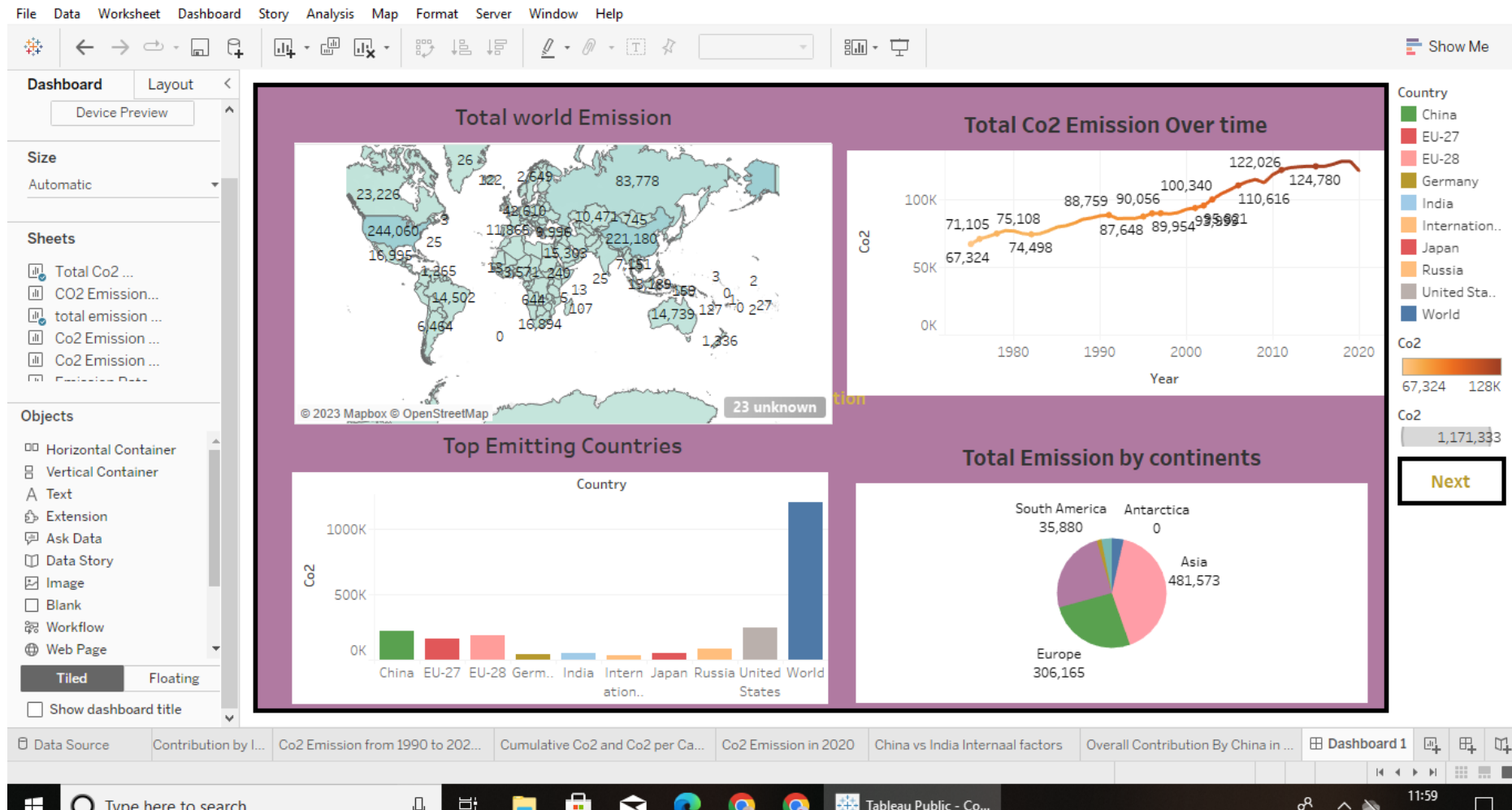
Clean energy is another way to help reduce carbon emissions

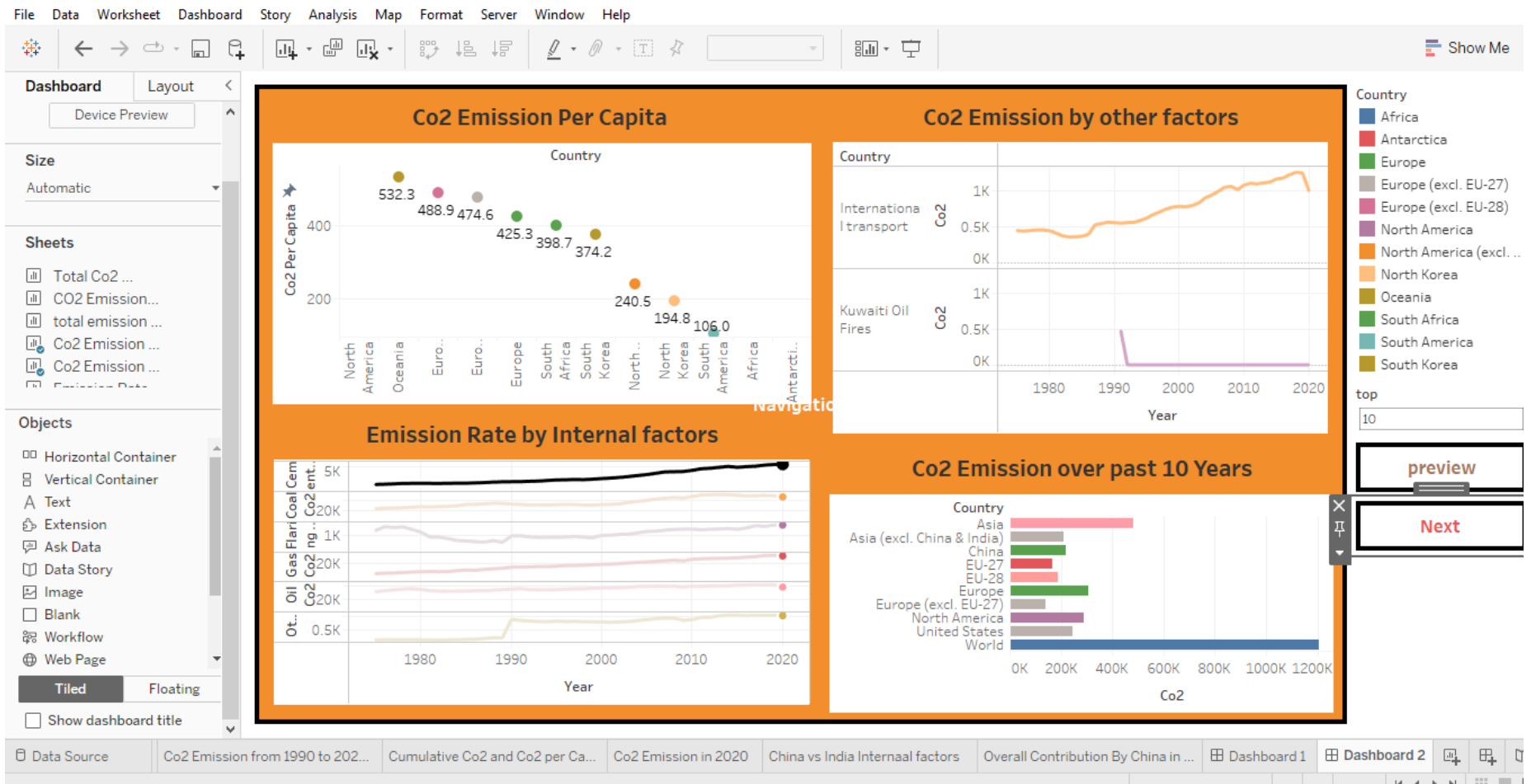
Idea Prioritization

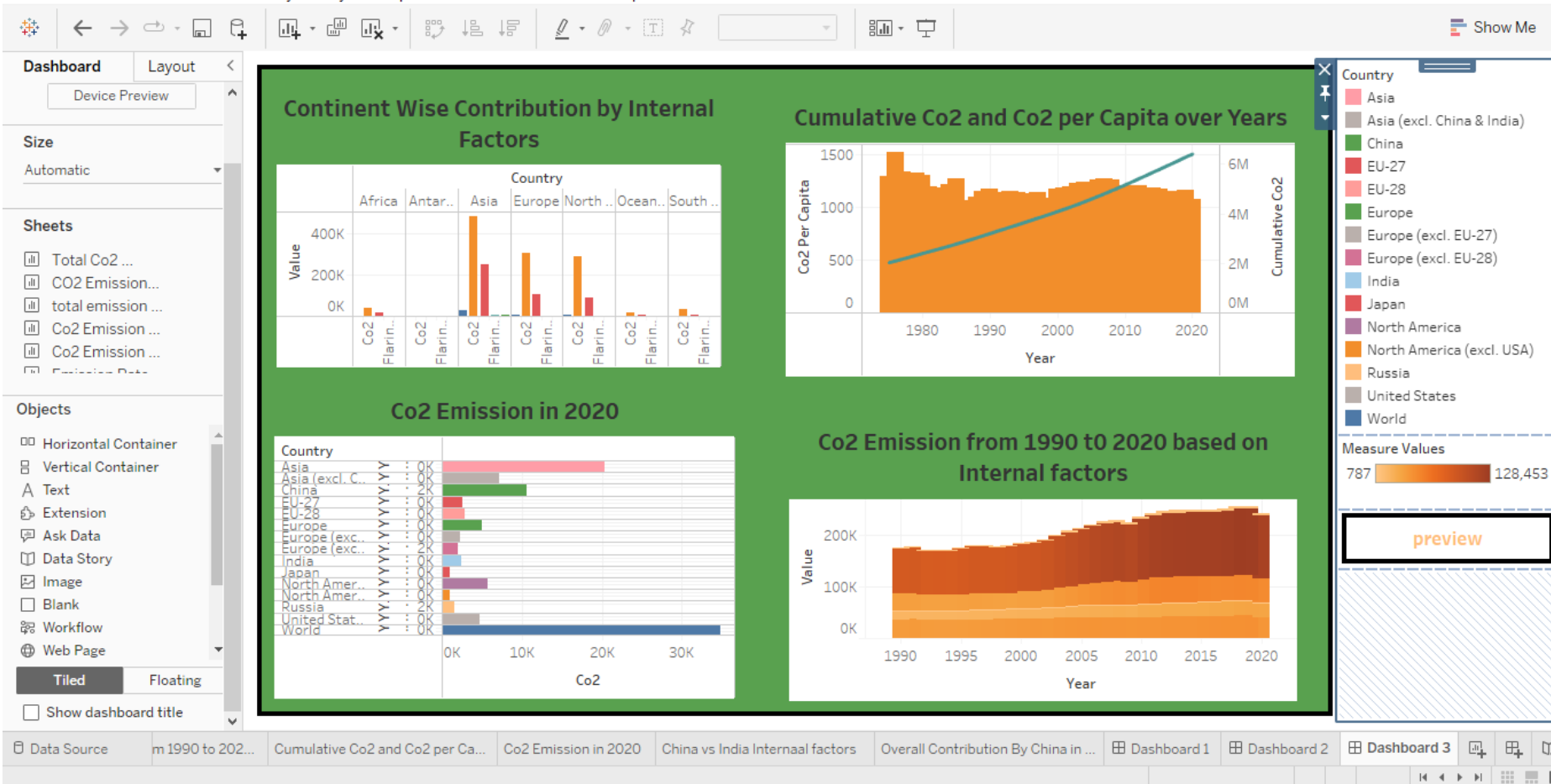


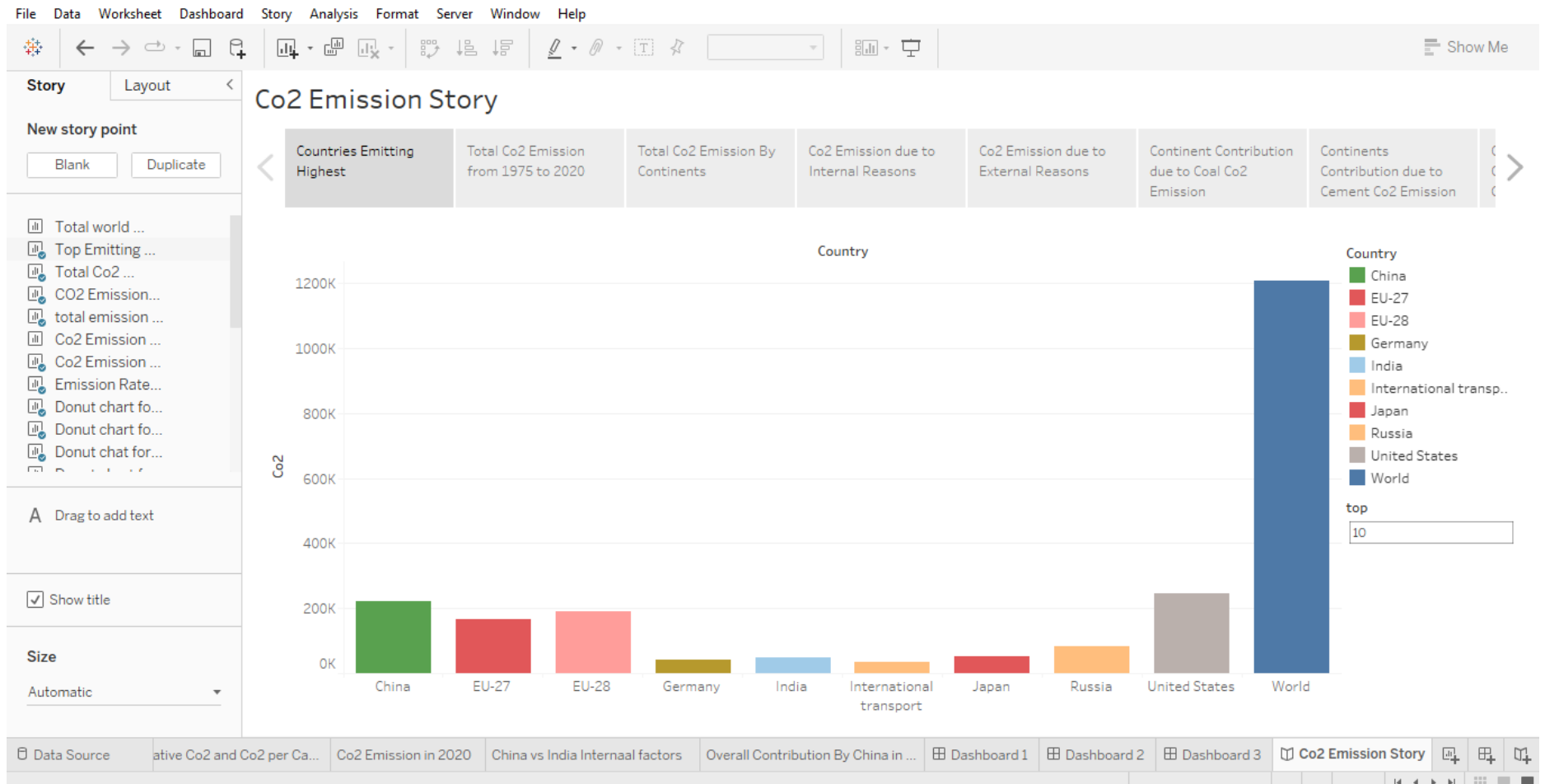
Result

Dashboard and Story









Advantages and Disadvantages

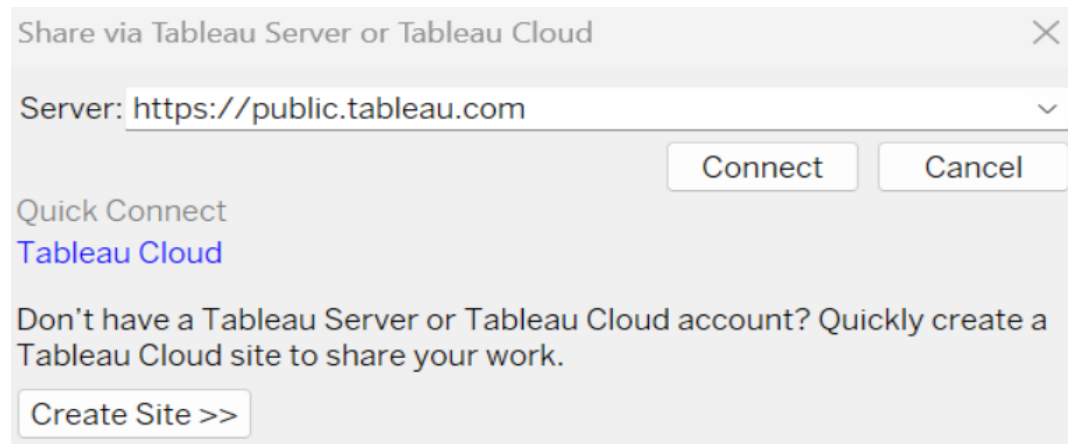
Green plants grow faster with more CO₂. Many also become more drought- resistant because higher CO₂ levels allow plants to use water more efficiently. More abundant vegetation from increased CO₂ is already apparent.

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.

Applications

Publishing dashboard and reports to tableau public

Step 1: Go to Dashboard/story, click on share button on the top ribbon



The screenshot shows a dialog box titled "Share via Tableau Server or Tableau Cloud" with a close button (X) in the top right corner. Inside the dialog, there is a "Server:" label followed by a text input field containing "https://public.tableau.com" and a dropdown arrow. Below the input field are two buttons: "Connect" and "Cancel". Underneath these buttons, the text "Quick Connect" is displayed, followed by a blue hyperlink "Tableau Cloud". At the bottom of the dialog, there is a message: "Don't have a Tableau Server or Tableau Cloud account? Quickly create a Tableau Cloud site to share your work." and a button labeled "Create Site >>".

Give the server address of your tableau public account and click on connect.

Embedded the dashboard and story using HTML

Platform Login Credentials - Proj x - Student x Global Co2 Emission Analysis x +

File | C:/Users/ELCOT/Desktop/A%20Global%20Co2%20Emission%20Analysis/Web%20integration/index.html

Welcome to Global Co2 Emission Analysis for Year 2020

Carbon dioxide emissions are the primary driver of global climate change. It's widely recognised that to avoid the worst impacts of climate change, the world needs to urgently reduce emissions.

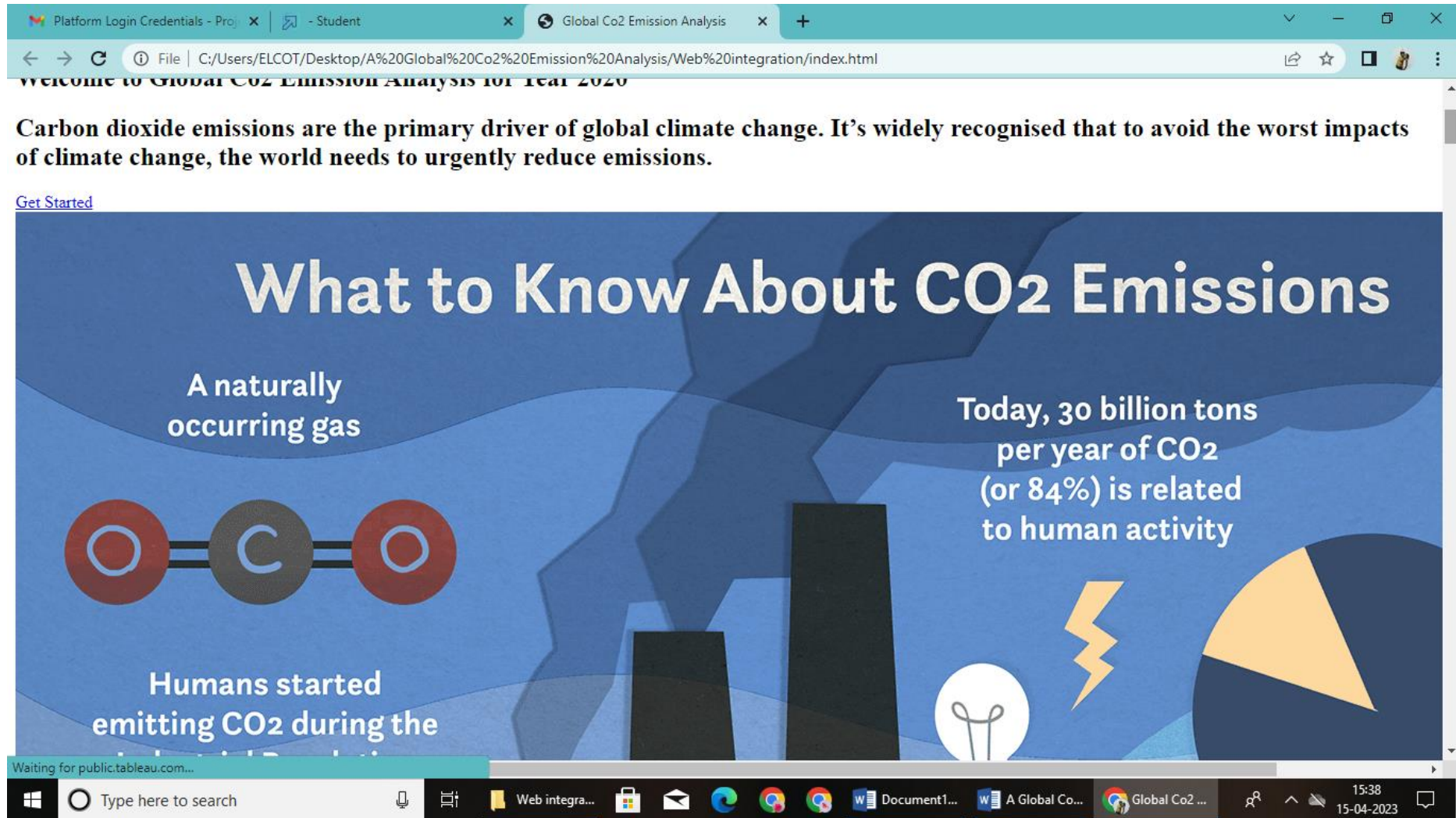
[Get Started](#)

What to Know About CO₂ Emissions

A naturally occurring gas

Today, 30 billion tons per year of CO₂ (or 84%) is related to human activity

Humans started emitting CO₂ during the

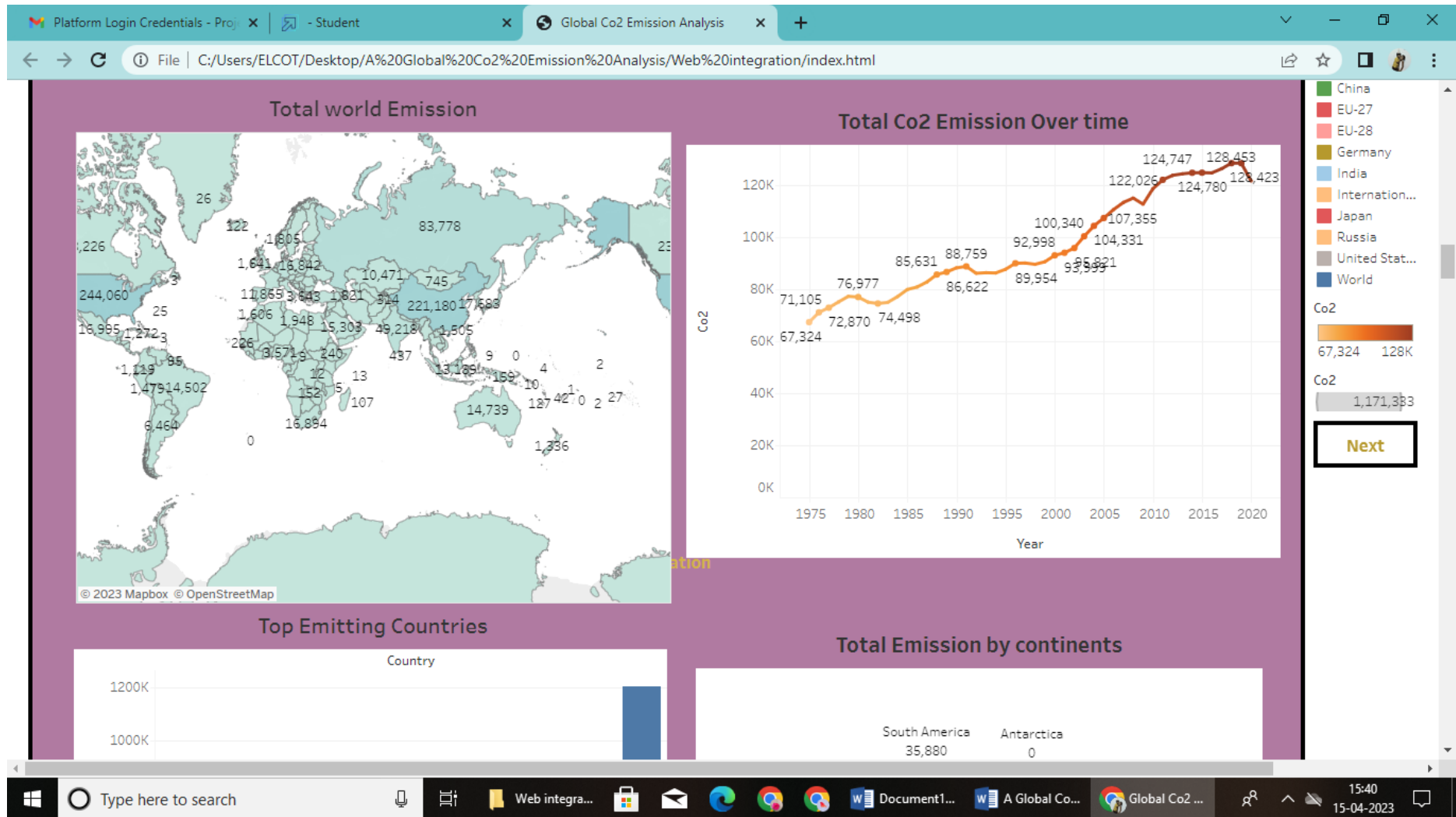


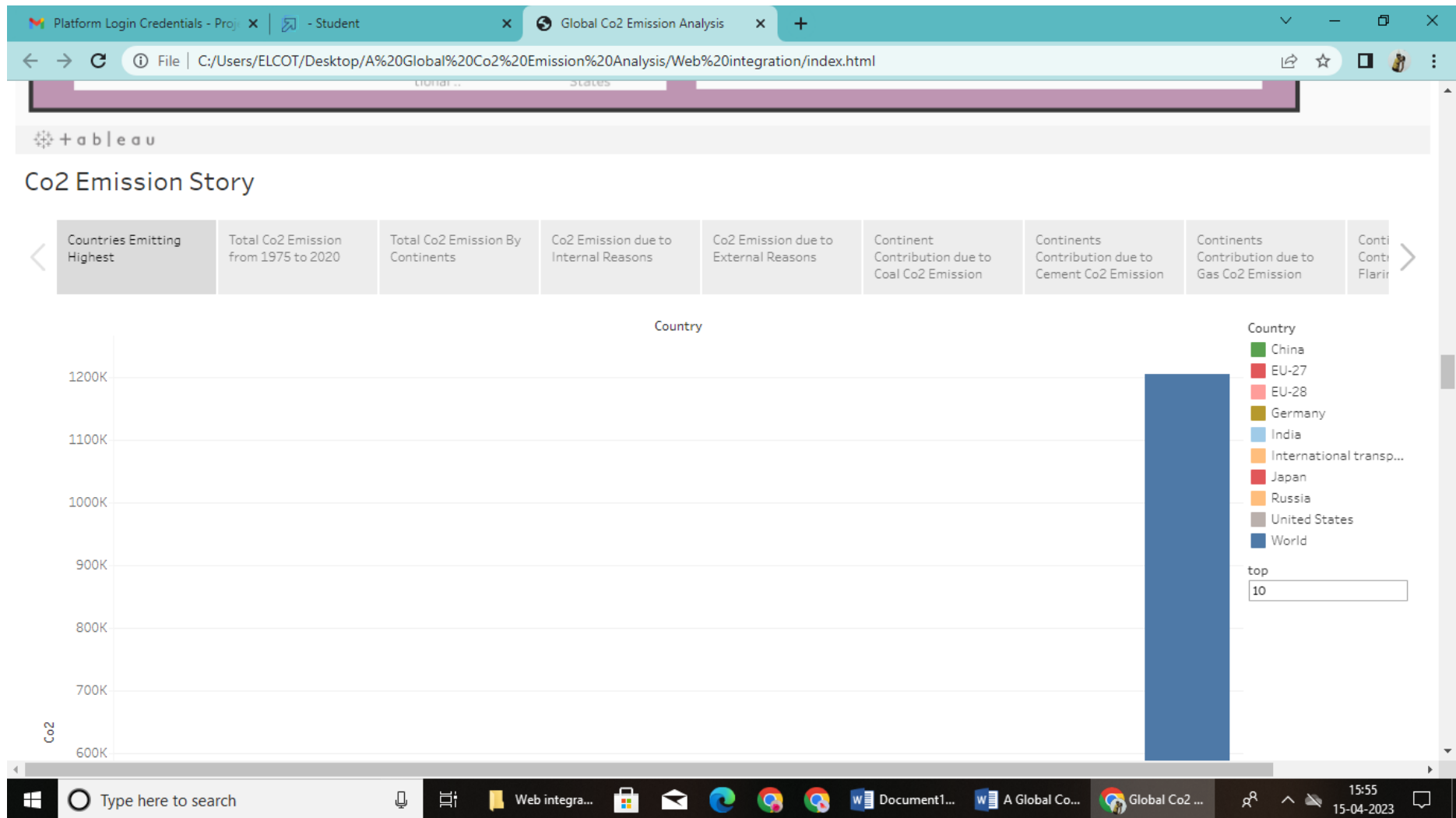
Waiting for public.tableau.com...

Type here to search

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Conclusion

- *Problem definition and design thinking*

Empathy map

Ideation & brain storming

- *Collecting the database*
 - *Connecting the database to tableau*
 - *Creating visualization on co2 emission*
 - *Constructing dashboard and story*
 - *Connecting dashboard and story to tableau public*
- Using Web Application (HTML)*