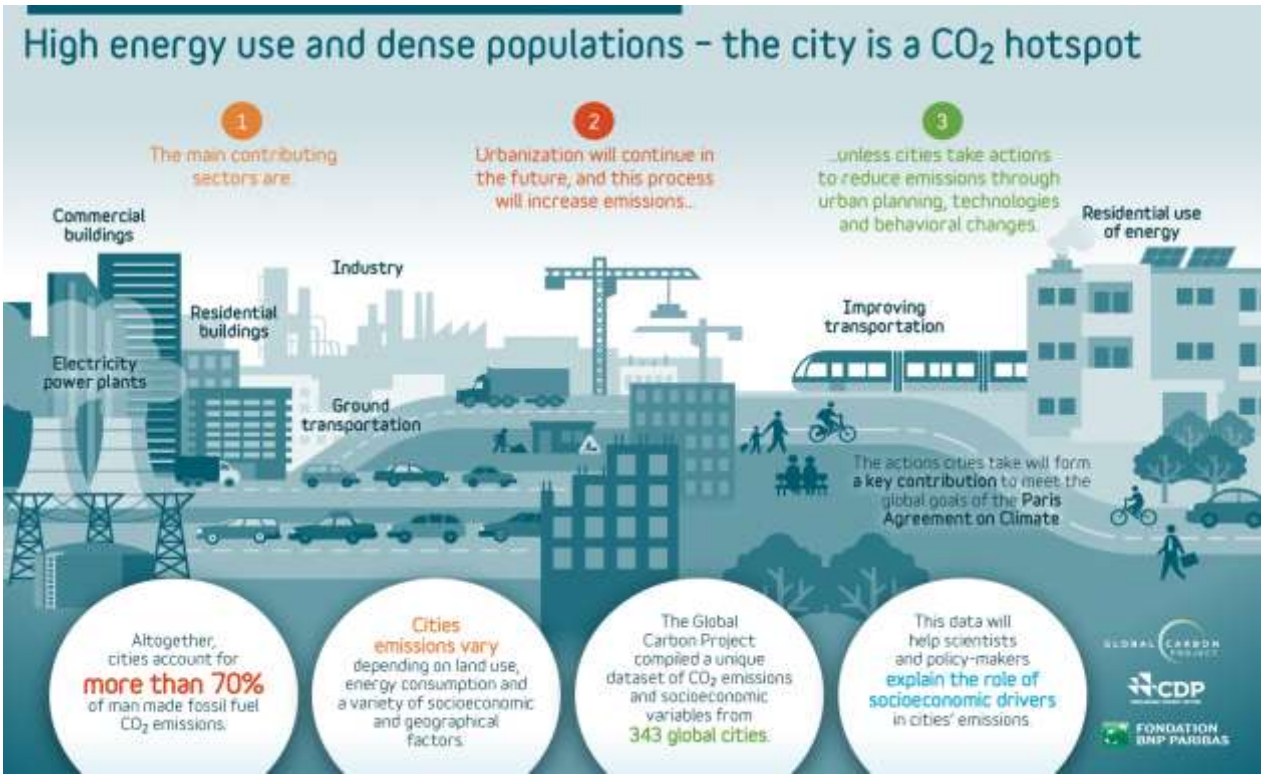
# A GLOBAL CO2 EMISSION ANALYSIS




## 1. Introduction

## 1. 1 Overview

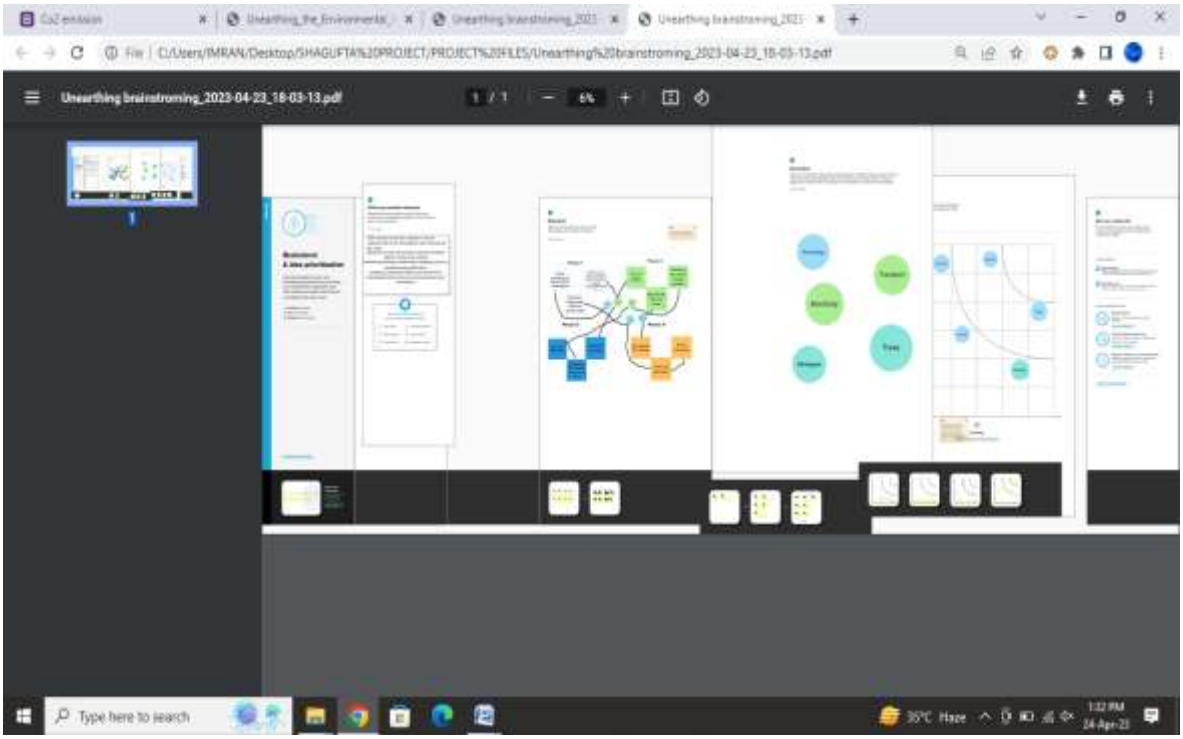
Global warming is one of the biggest challenges currently being faced by the human race, although correlation is not causation, a likely cause of global warming is due to increased atmospheric carbon dioxide from human activities. CO2 Emission refers to the Carbon Dioxide emitted throughout the world. Fossil fuel use is the primary source of CO2. Now, we are going to analyse and visualise Country wise, Region wise and Overall Co2 Emission on Earth.

### 1.2 Purpose

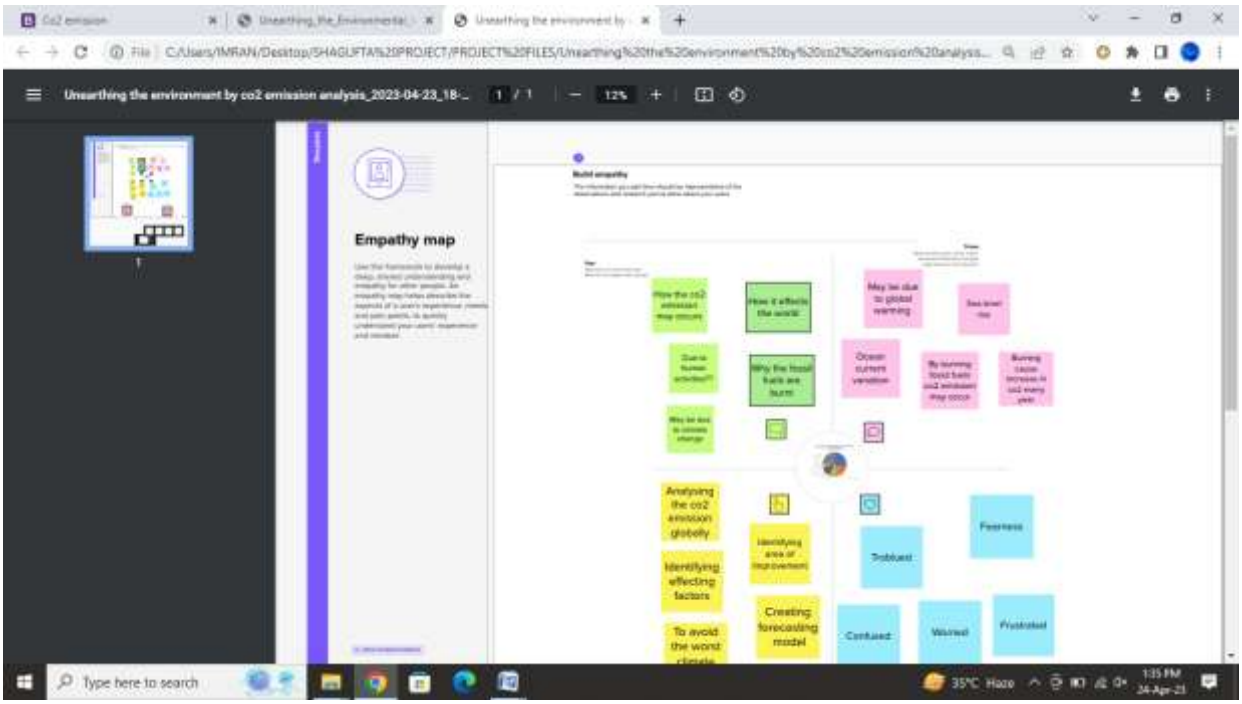
Carbon dioxide emissions are the primary driver of global climate change. It's widely recognised that to avoid the worst impacts of climate change, the world needs to urgently reduce emissions. The countries can identify areas for improvement and take steps to reduce factors that are responsible for Co2 Emission for environmental sustainability by improving the efficiency and transitioning to low carbon alternatives.

## 2. Problem defining and design thinking

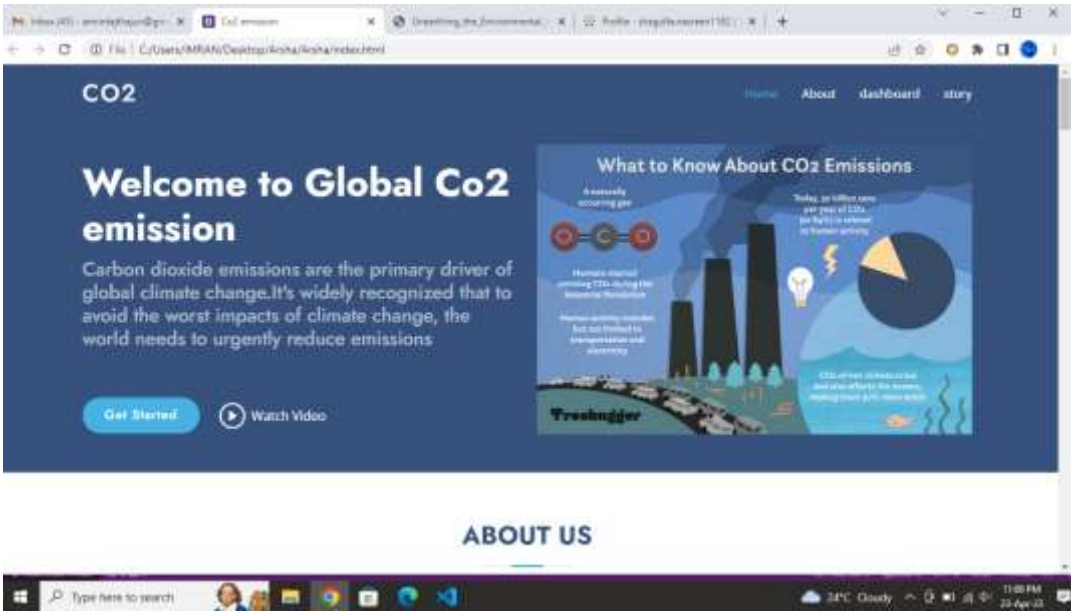
## 2.1 Empathy Map




## 2.2 Ideation and brainstorming



## 3. **RESULT**




## 4. Advantages

- Support climate goals
- Reduction potential is required
- Green plants grow faster with more Co2
- Improves air quality and benefits human health
- Reduce the probability of the most damaging effects of climate change and natural system
- Lead to heating of earth surface

## Disadvantage

- Acid rain
- Geographical change
- Poor air quality
- Increasing temperatures
- Shifting precipitation patterns
- Ocean acidification
- Sea level rise and increasing intensity
- Frequency of extreme weather events

## 5. APPLICATION OF GLOBAL CO2 EMISSIONS

Carbon dioxide is used as

- a refrigerant,
- in fire extinguishers,
- for inflating life rafts and life jackets,
- blasting coal,
- foaming rubber and plastics,
- promoting the growth of plants in greenhouses,
- immobilizing animals before slaughter, and
- in carbonated beverages.
- to produce fuels that are in use today, including methane, methanol, gasoline and aviation fuels.

## CONCLUSION

To achieve the two-degree target with a probability of around 70%, it is estimated that global greenhouse gas emissions need to decrease by 50-60% from 2000 to 2050, and by almost 100% by 2100. To achieve a 1.5-degree target with a probability of around 70%, zero emissions are needed globally as early as 2050. "The rising level of atmospheric CO2 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." In conclusion, climate change is the most significant problem facing the world. Global warming is increasing day by day. If we cannot prevent it as soon as possible, our world will face undesirable consequences. The more those with large carbon footprints use resources, the more greenhouse gases increase and spur further climate change. Although greenhouse gases do occur naturally, human activity contributes a great deal to greenhouse gas emissions. By shrinking your footprint you can reduce the contribution your lifestyle makes to climate change. It can also help you to understand the issues of science, policy and technology that are central to climate change. Furthermore, the process shrinking your footprint can motivate you to take further climate action.

## FUTURE SCOPE

$CO_2$ emissions from energy combustion grew by around 1.3% or 423 Mt in 2022, while $CO_2$ emissions from industrial processes declined by 102 Mt. Emissions growth in 2022 was below global GDP growth (+3.2%), reverting to a decades-long trend of decoupling emissions and economic growth that was broken in 2021. In the Annual Energy Outlook 2022 (AEO2022) Reference case, which assumes no changes to current laws or regulations, the U.S. Energy Information Administration (EIA) projects that U.S. energy-related carbon dioxide ($CO_2$) emissions will fall to 4.5 billion metric tons in 2037, or 6% below the energy-related $CO_2$ .Continued emissions of greenhouse gases will lead to further climate changes. Future changes are expected to include a warmer atmosphere, a warmer and more acidic ocean, higher sea levels, and larger changes in precipitation patterns.

## APPENDIX

### SOURCE CODE

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       </div>
```

```
        </div>



      </div>
    </section><!-- End Services Section -->
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     </script>
          </div>

          </div>
```

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    </div>
  </section><!-- End Portfolio Section -->
```