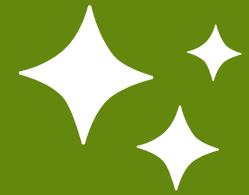


Project Tableau Food

Emma Trivini Bellini



Introduction

Climate change has become a growing global concern, and it is widely recognized that food production accounts for approximately 25% of global greenhouse gas emissions. As a result, there is increasing awareness of how our dietary choices directly influence our individual carbon footprint. This data visualization illustrates the greenhouse gas emissions associated with various food products. For each product, it highlights the contribution of different stages of the supply chain to the overall emissions.

Data and Sources

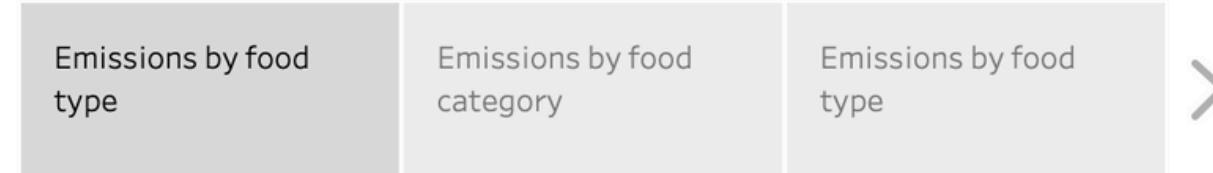
The [dataset](#) used for this analysis and visualization originates from the most comprehensive meta-analysis of global food systems to date, conducted [by Joseph Poore and Thomas Nemecek and published in Science \(2018\)](#). The study aims to quantify the full extent of greenhouse gas emissions generated throughout the entire food production process.

Project Link

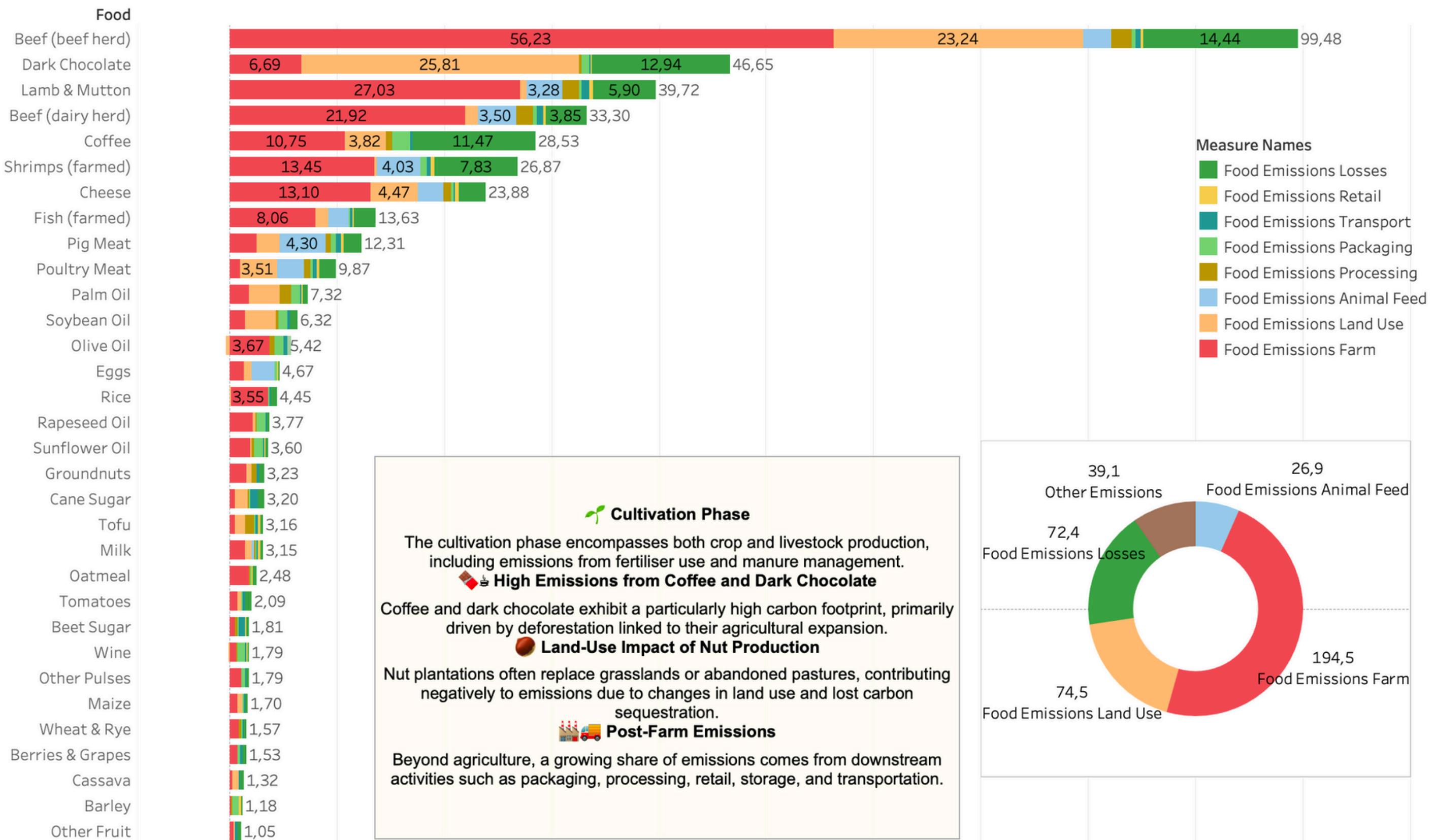
[View the interactive dashboard](#)



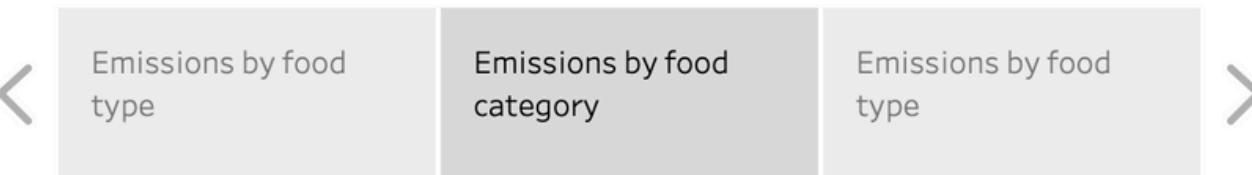
Story 1



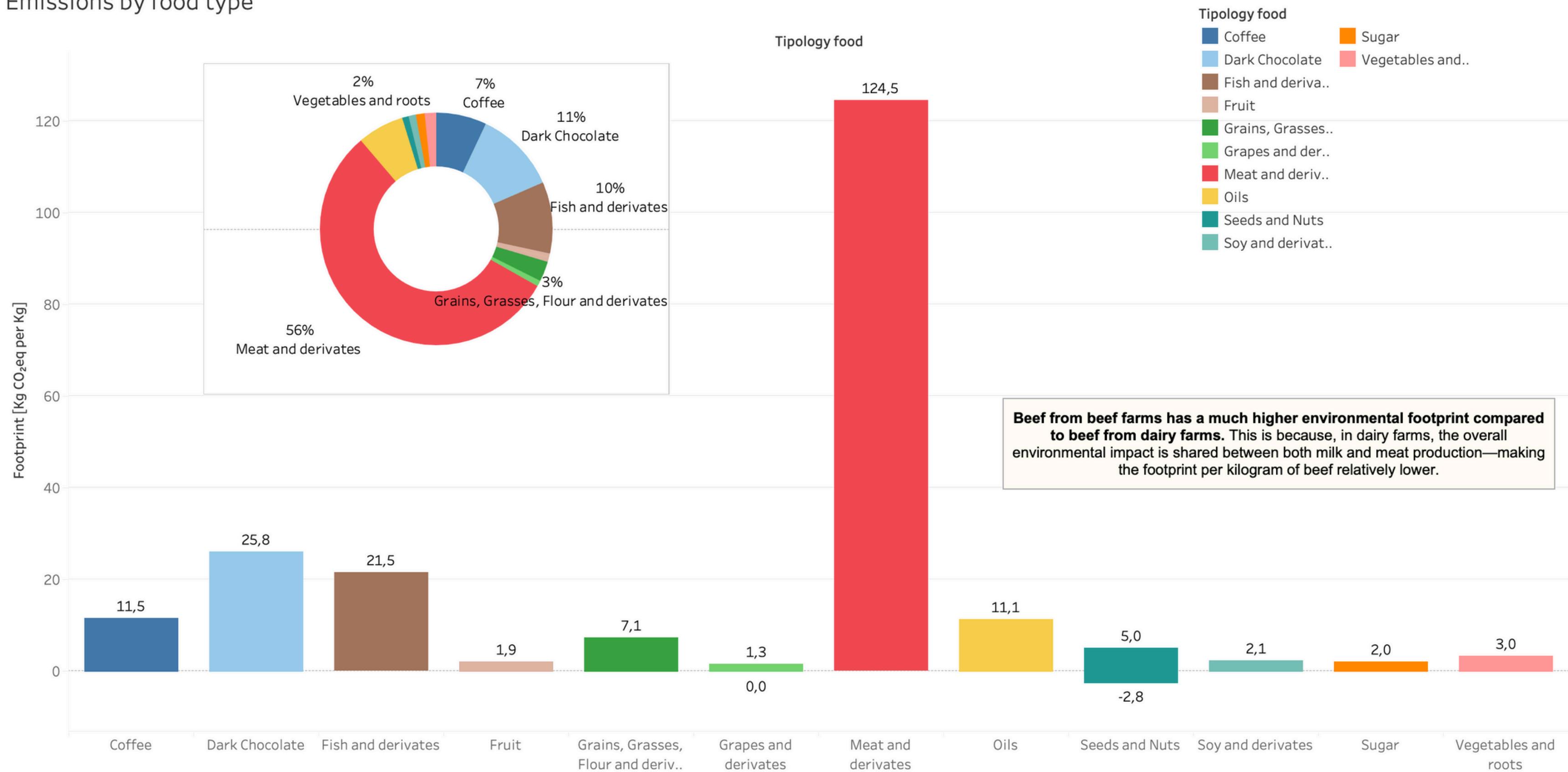
Emissions by food



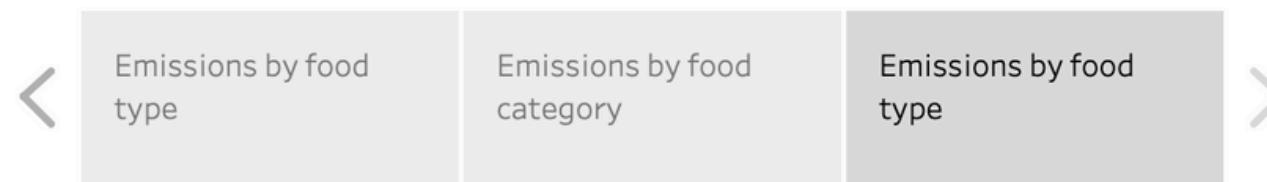
Story 1



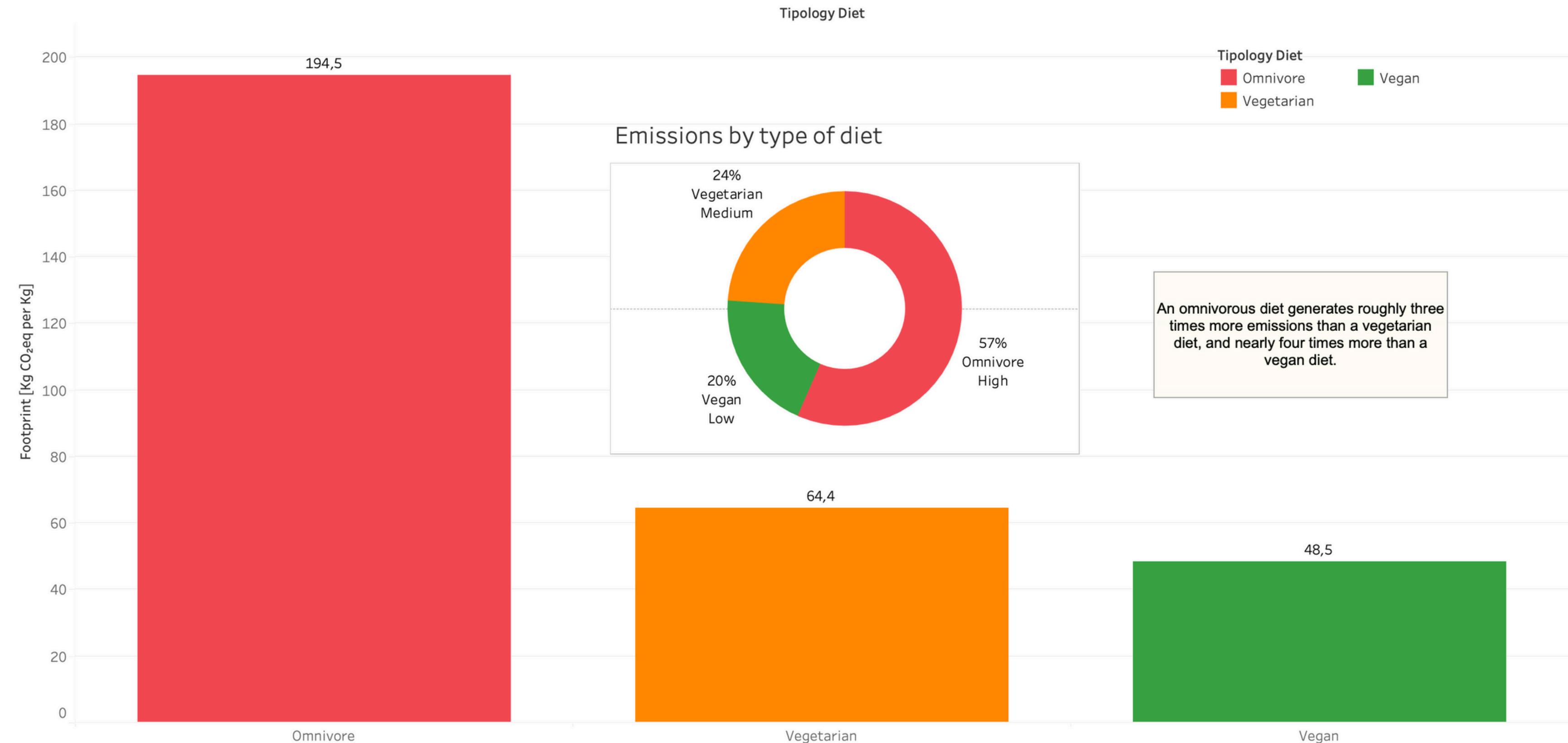
Emissions by food type



Story 1



Comparison by type of diet



Calculated fields



Emissions Tipology Diet

CASE [Tipology Diet]

WHEN "Omnivore" THEN "High"

WHEN "Vegetarian" THEN "Medium"

ELSE "Low"

END

Sum Emissions

SUM([Food Emissions Animal Feed]) +

SUM([Food Emissions Farm]) +

SUM([Food Emissions Land Use]) +

SUM([Food Emissions Losses]) +

SUM([Food Emissions Packaging]) +

SUM([Food Emissions Processing]) +

SUM([Food Emissions Retail]) +

SUM([Food Emissions Transport])

Zero

0

CREATION OF A DONUT CHART

Conclusions

This analysis demonstrates that vegan, vegetarian, and omnivorous diets have significantly different environmental impacts.

A vegan diet, which excludes all animal products, results in the lowest CO₂ emissions—approximately four times lower than those of an omnivorous diet—due to its reliance on plant-based foods.

A vegetarian diet, which includes dairy and eggs but excludes meat and fish, produces three times fewer emissions than an omnivorous diet, though dairy and egg production still contribute to its carbon footprint.

The omnivorous diet, which includes meat and fish, is associated with the highest emissions, primarily due to the resource-intensive nature of animal agriculture.

Overall, shifting towards plant-based diets offers a practical and effective way to reduce the carbon footprint of the food system.

Project Link

[View the interactive dashboard](#)