



## PROJECT REPORT

# **Title:** Unlocking Insights into the Global Air Transportation Network

### TEAM MEMBERS:

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### Executive Summary:

Provide a brief overview of the report's key findings and insights.

Mention the dataset used and the purpose of the analysis.

Table of Contents:

### Introduction

Provide an introduction to the importance of analyzing the global air transportation network.

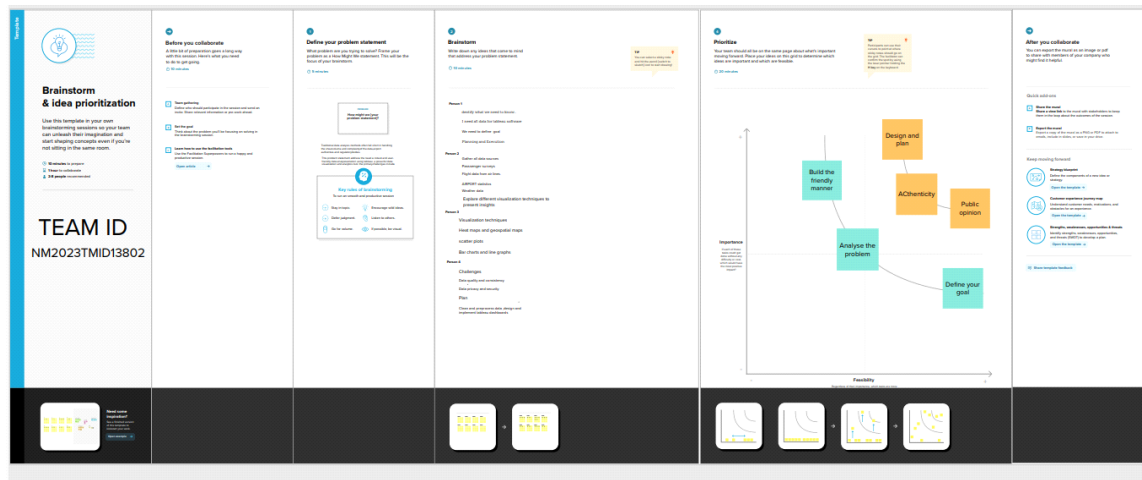
Explain the objectives and scope of the report.

Data Source and Preprocessing

Describe the data source(s) used for the analysis.

Discuss any data preprocessing steps, data cleaning, and integration processes.

Data Visualization and Exploration



Create various visualizations to provide an overview of the data, such as:

A world map showing major airports and routes.

Bar charts showing the top airlines, airports, and destinations.

Line charts illustrating trends in air travel over time.

Pie charts showing the distribution of flight types (domestic, international).

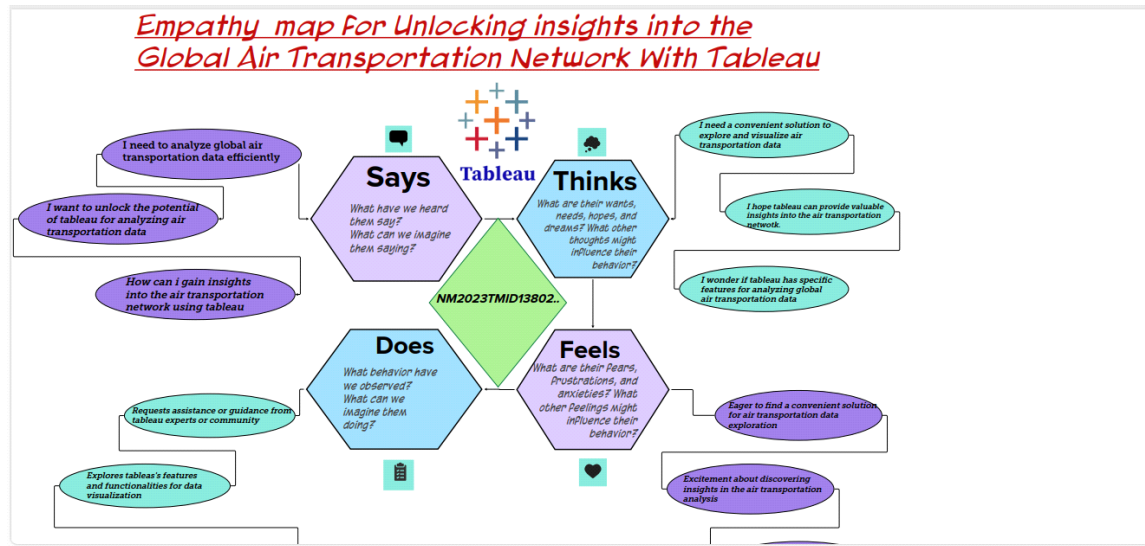
Include tooltips and filters to make the visualizations interactive.

Network Analysis

Use network graphs to show the relationships between airports and routes.

Analyze the connectivity of major airports and hubs.

Identify key routes and airline alliances.



## Geographical Insights

Provide insights into the geographical distribution of air traffic.

Analyze regional disparities in air travel.

Include heat maps, scatter plots, or other geographical visualizations.

## Performance Metrics

Calculate and visualize performance metrics, such as on-time performance, delays, and cancellations.

Identify factors influencing performance, like weather, airline, or airport.

## Passenger Demographics



Discuss the implications of the analysis for the air transportation industry.

## Recommendations

Based on the insights, provide recommendations for industry stakeholders, policymakers, and travelers.

## References

Include a list of data sources, tools, and references used in the report.

## Appendices

Include any additional data, code snippets, or supplementary information.

Remember to create interactive dashboards in Tableau to allow users to explore the data and findings in real-time. Your report can be as detailed as the data and your objectives allow. Ensure that the visualizations are clear and help convey the insights effectively.