

Unlocking Insights into the Global Air Transportation Network

1.Introduction

1.1 Overview

This Global Air Transportation Network dataset is a comprehensive collection of information on airports, airlines and their routes. It contains information such as names, cities, countries, codes (IATA and ICAO) longitudes, latitudes and altitudes of airports across the world with detailed time zone and daylight saving time data. Additionally, this includes information about airlines including their IDs, name aliases, IATA and ICAO codes, callsigns country of origin and active/inactive status. Similarly, it also covers route details such as airline sources to destination airports along with essential details like codeshare stakeholder if any stops required during this journey along with the type of aircraft being used for that particular journey. This dataset has been compiled through meticulous labor by researchers all over the world to give you a comprehensive detail into air transportation networks from around the globe.

Link

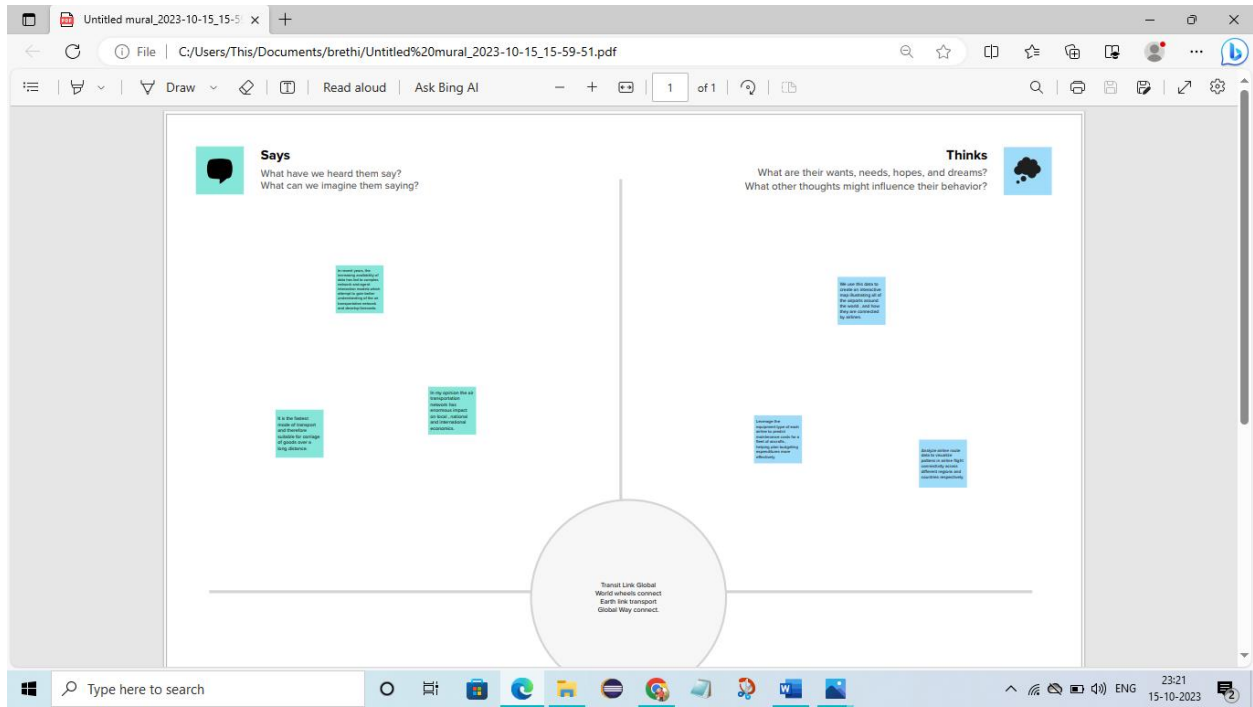
1. <https://public.tableau.com/app/profile/esaikala.p/vizzes>
2. <https://drive.google.com/drive/folders/1ne7iXfuOn5xwEML1BLaELpDUxMvVFh6B>
3. https://github.com/Breathika/Unlocking-Insights-into-the-Global-Air-Transportation-Network-with-Tableau-_NM2023TMID03064

1.2 Purpose

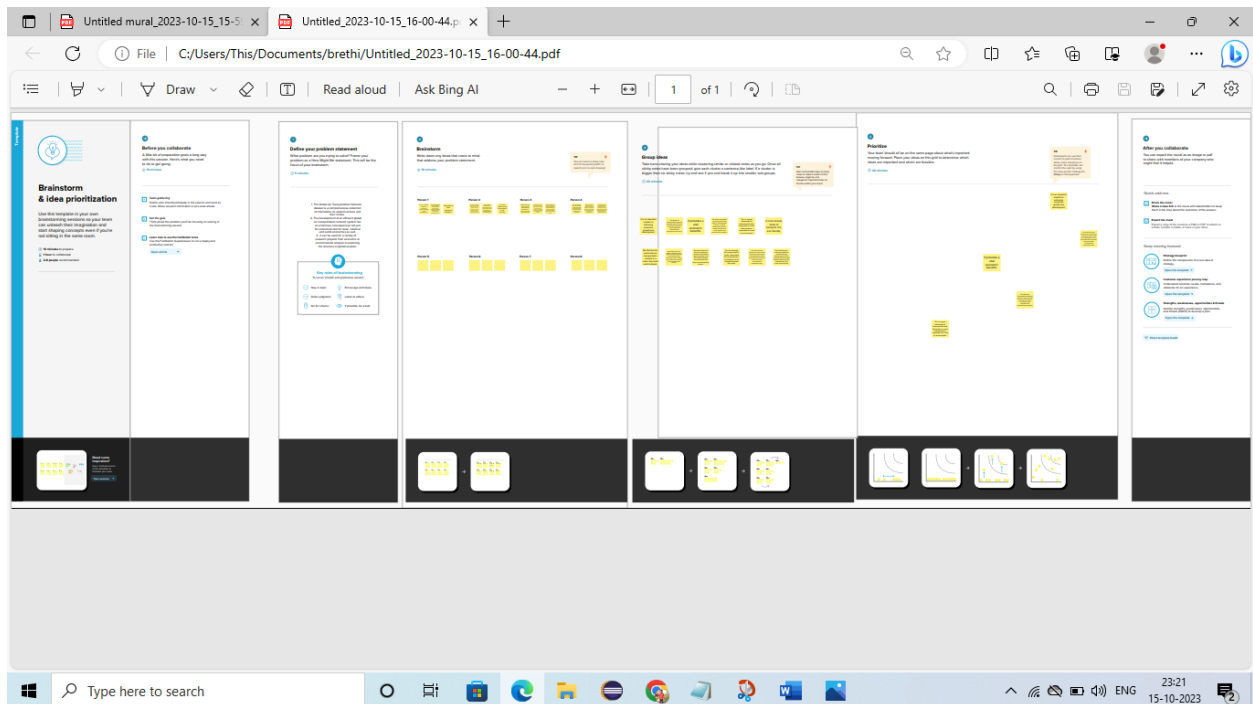
Air transport is one of the fastest modes of public transport which connects international boundaries. Air transport allows people from different countries to cross international boundaries and travel other countries for personal, business, medical, and tourism purposes.

2.PROBLEM DEFINITION & DESIGN THINKING

2.1 EMPATHY MAP

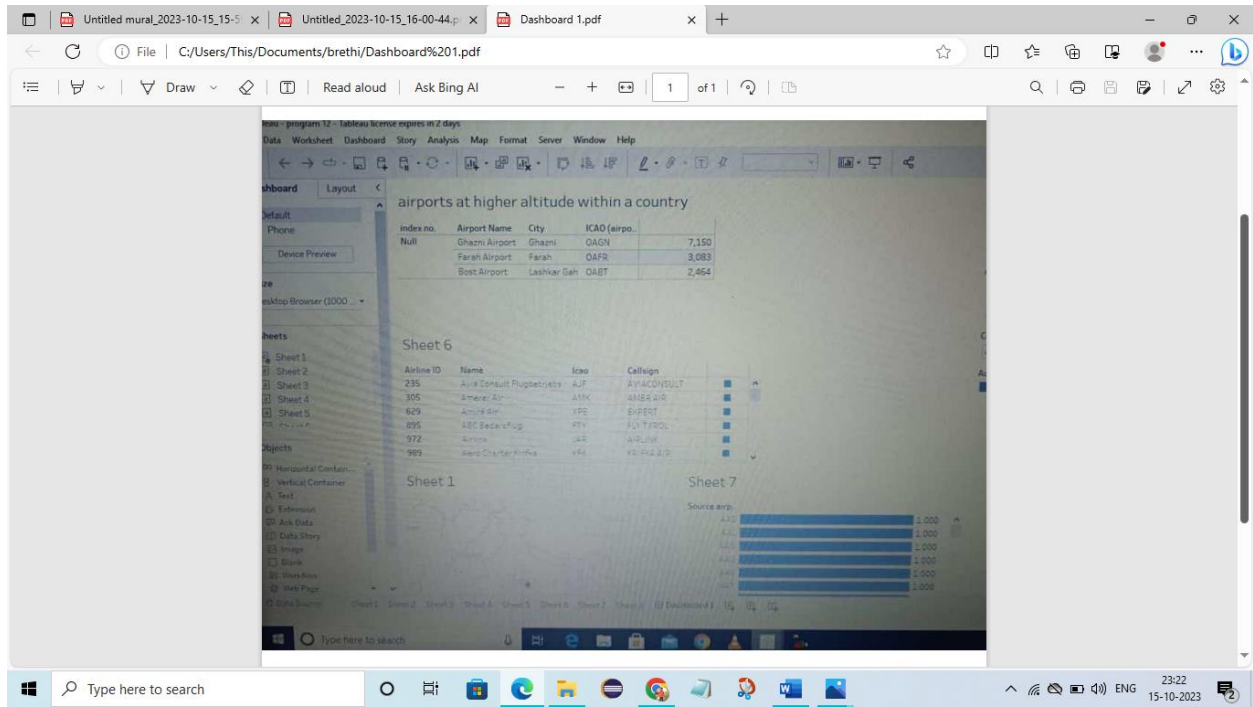


2.2 BRAINSTROMING MAP

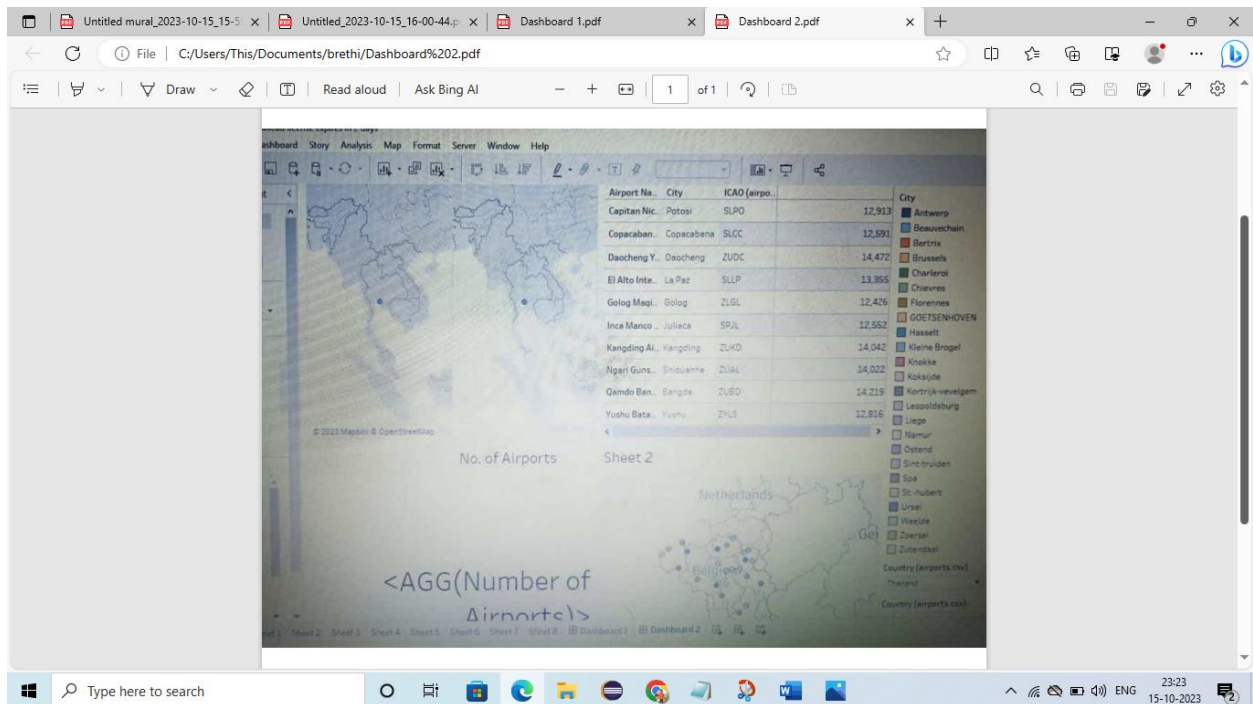


3.RESULT

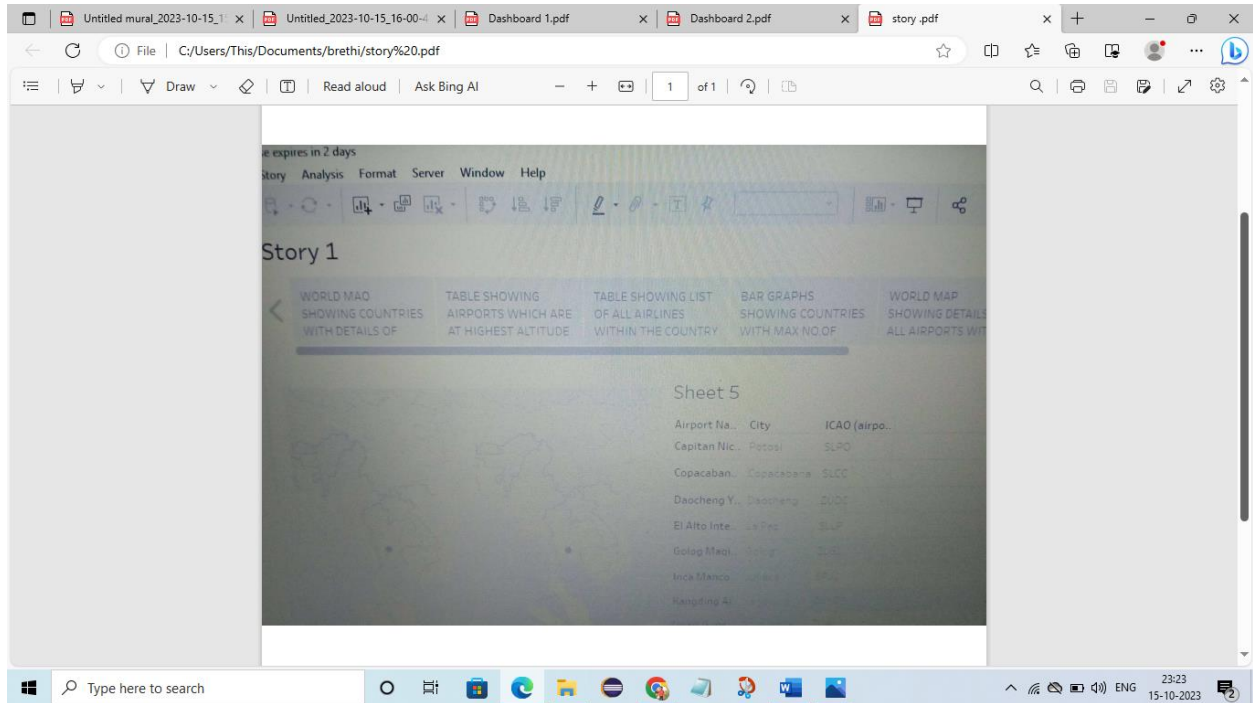
DASHBOARD 1



DASHBOARD 2



STORY



4. Advantage & Disadvantage

Fast delivery times. Undoubtedly, one of the most advantageous features offered by air transport is its speedy delivery times. ...

No Physical Limits. ...

Very reliable transportation. ...

Long Distances. ...

Higher Cost. ...

Less storage capacity. ...

Restrictions on goods.

There are some disadvantages of transporting your goods by air, including: air transport can involve higher costs than other options, and is not suitable for all goods. flights are subject to delay or cancellation. you will need to pay taxes at each airport you use.

Application

The worldwide air transportation network is a critical infrastructure with high impact on mobility, trade and economy. Another examples are the air transport systems of a country or a country's own air transport company.

Conclusion

In conclusion, the Indian aviation industry has undergone significant developments and growth in recent years. The expansion of regional connectivity, emergence of low-cost carriers, increased investment in infrastructure, and adoption of technological advancements have all contributed to the growth of the industry.

Future Scope

Emerging technologies are reshaping with robotics, artificial intelligence, the internet of things, unmanned aircraft systems and the push for hybrid and electric airplanes – just to name a few. Alternative fuels can significantly change the current scenario of aviation in support of the environmental protection.