

UNLOCKING INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK WITH TABLEAU

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1.INTRODUCTION

1.1 OVERVIEW

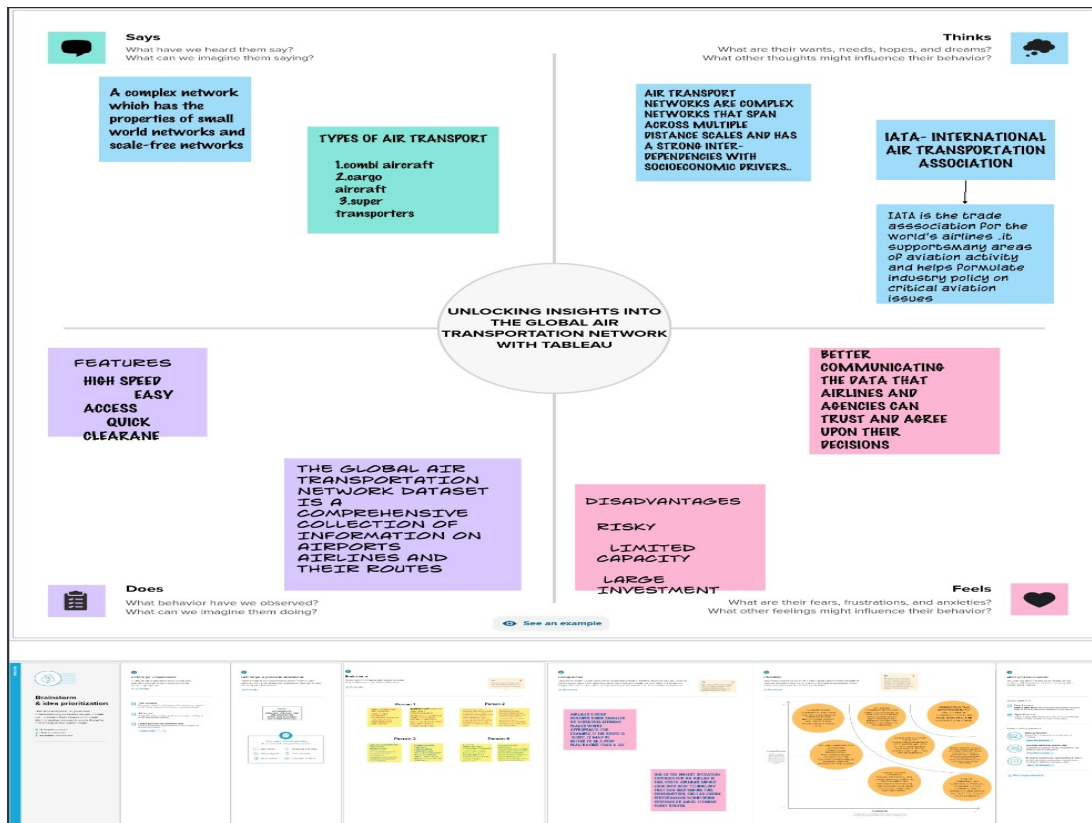
The Air Transport system Generally Includes Airports, ATC (Air Traffic Control) System, And Airlines.The Airports Represent The Ground Part of the System's Infrastructure Handling the Aircrafts operated by different Airlines transporting passengers and freight/cargo shipments.

1.2 PURPOSE

The 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, medical, and tourism purpose.

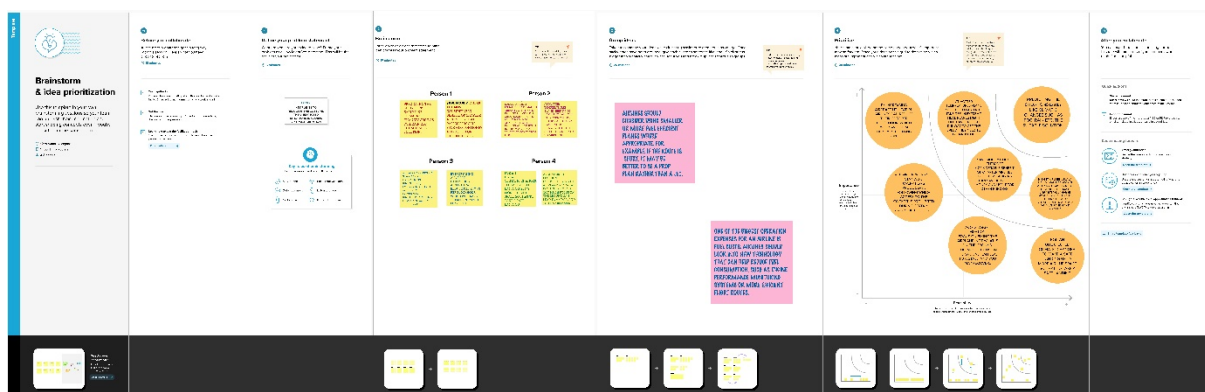
2.1 EMPATHY MAP

An empathy map is a widely-used visualization tool within the field of UX and HCI practice. In relation to Empathetic design,the primary purpose of an empathy map is to bridge the understanding of the end user.



2.2 INDENTATION AND BRAINSTORMING MAP

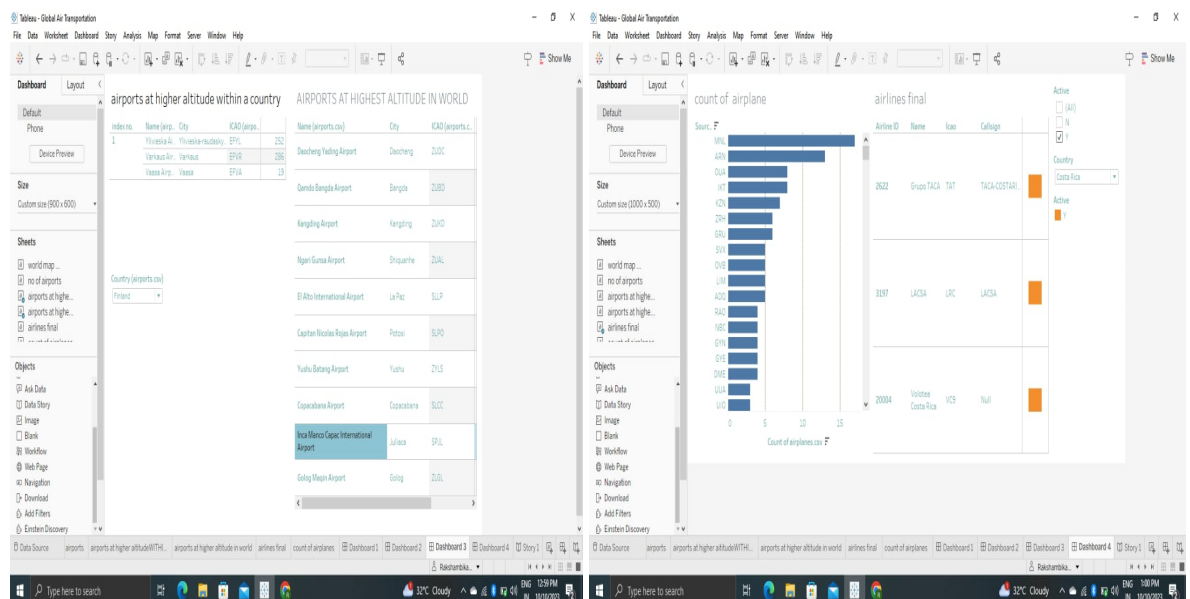
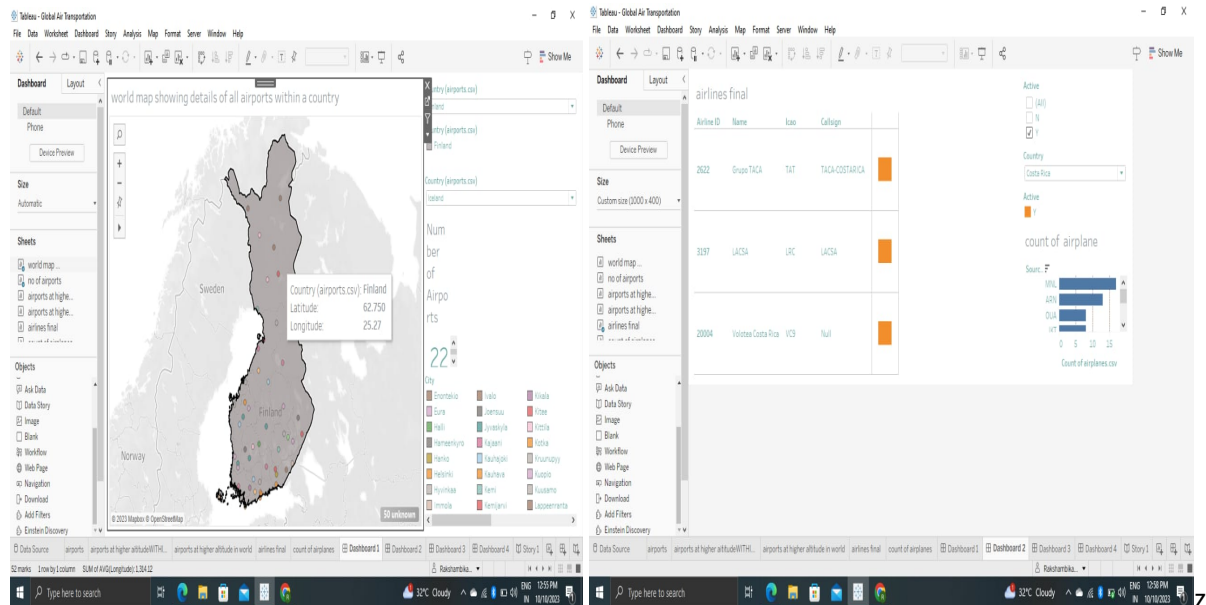
The brain storming map is group creativity technique by which efforts nare made to find a conclusion for a specific problem by gathering list of idea spontaneously contributed by its members



3 RESULT

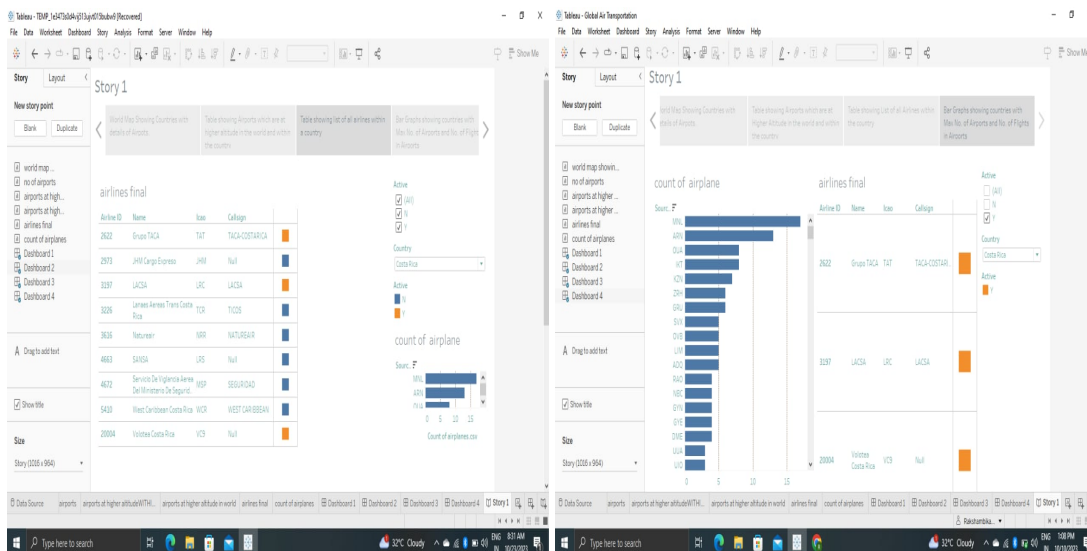
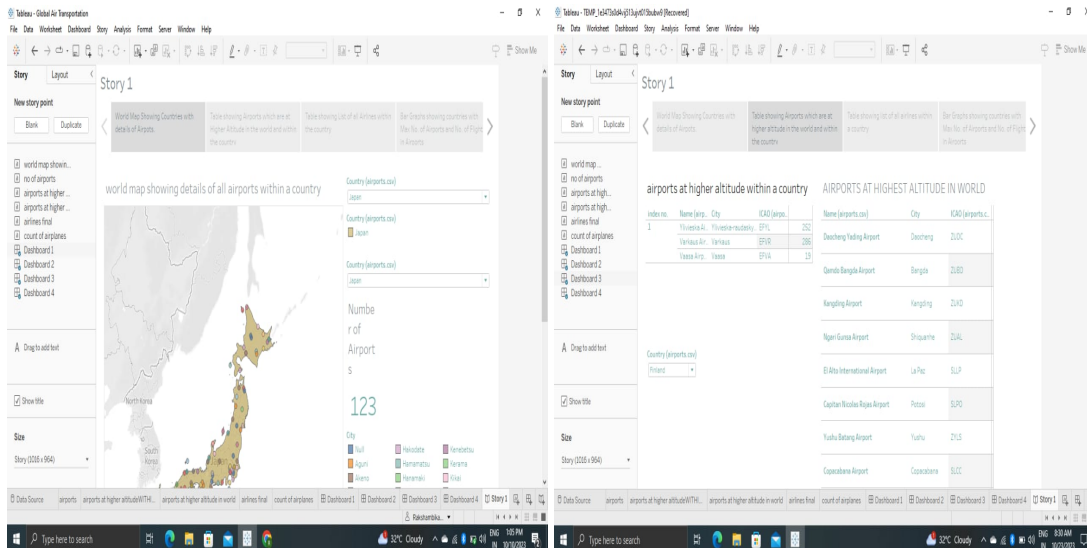
DASHBOARD

A dashboard is a graphical user interface (GUI) That displays information and data in a organized, easy to read format



STORY

A storyline is a way of presenting data and analysis in a narrative format, intending to make the information more engaging and easier to understand



4. ADVANTAGES AND DISADVANTAGES

4.1 ADVANTAGES

Air transport is one of the fastest modes of travel aeroplanes can carry people mail and lightweight goods to distant places in the shortest time possible . they also prove to be extremely useful during the times of natural calamities and other emergencies.

- No physical limits
- Very reliable transportation

- Time saving
- Natural routes
- Fast service
- There is less need for heavy packaging
- High standard for security

Air transportation provides significant economic and social benefits. It facilitates tourism, trade, connectivity, generates economic growth, provides jobs, improves living standards, alleviates poverty, provides a lifeline for remote communities and enables a rapid response when disasters occur.

It offers a secure environment for the transport of expensive products.

Physical barriers like land borders, water, or mountains do not limit their speed

The infrastructure required to establish this service could be higher.

DISADVANTAGES

There are some disadvantages of transporting your goods by air, including air transport can involve higher costs than other options, and is not accepted a lot of goods, flights are subject to delay or cancellation you will need to wait a lot at airports.

- Risky
- Limited capacity
- Uncertain and unreliable
- Accident prone
- Large investment
- Unfit for cheap and bulky goods
- Restriction on goods
- Creates air pollution and noise pollution

When air transport is a quick method of transportation, it has the problem of a small cargo hold . there are restrictions on the numbers of passengers who may travel, which could be better for handling big goods.

Air travel is uncertain since weather conditions heavily influence it. Unfavourable weather conditions like fog, snow, or severe rain , among others.

Compared to other forms of transportation, there is higher likelihood of breakdowns and accidents. Thus , there is a higher relative risk involved.

5. APPLICATIONS

The importance of air transport lies in its ability as an economic engine to generate and support jobs, strengthen trade and connectivity between people and countries, promote tourism and connect remote communities.

The undoubted economic and social benefits of aviation are clear with the growth of the sector being important for all countries, developed and developing. However, these benefits also come at an environmental cost. For aviation to grow sustainably, it is vital that the industry balance the benefits of air travel growth with the responsibility to take actions on climatic change.

Air connectivity also enables social connection and inclusion and the promotion of the exchange of knowledge and ideas. In the same way, it encourages increased productivity, improved efficiency and favors innovation.

CONCLUSION

In conclusion analysing the global air transportation network is a multi faced practice with far reaching implications for businesses, as a person , policymakers, society as a whole. It serves as a critical

tool for understanding and creating a new routes and we can make innovations , and more accurate predictions of a country's airports, airline network, latitude ,longitude, etc...

7. FUTURE SCOPE

As a industry continues to evolve, IATA will remain an important player in shaping the future of air transportation. In conclusion, the international air transport association has been instrymental in developing and improving the air transport industry.

As advancements like artificial intelligence, data analytics, and automation revolutionize the industry, professionals with expertise in these areas will be in high demand. They will contribute to enhancing safety, efficiency, and sustainability in air transportation.