A PROJECT REPORT

ON THE GLOBAL AIR TRANSPORTATION NETWORK



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DEPARTMENT OF B.SC MATHEMATICS
MMES WOMEN'S ARTS AND SCIENCE COLLAGE.
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TOPICS

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2PROBLEM DEFINITION & DESIGN THINKING

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INTRODUCTION

• This Global Air Transportation Network dataset is a comprehensive collection of information on airports, airlines and their routes.

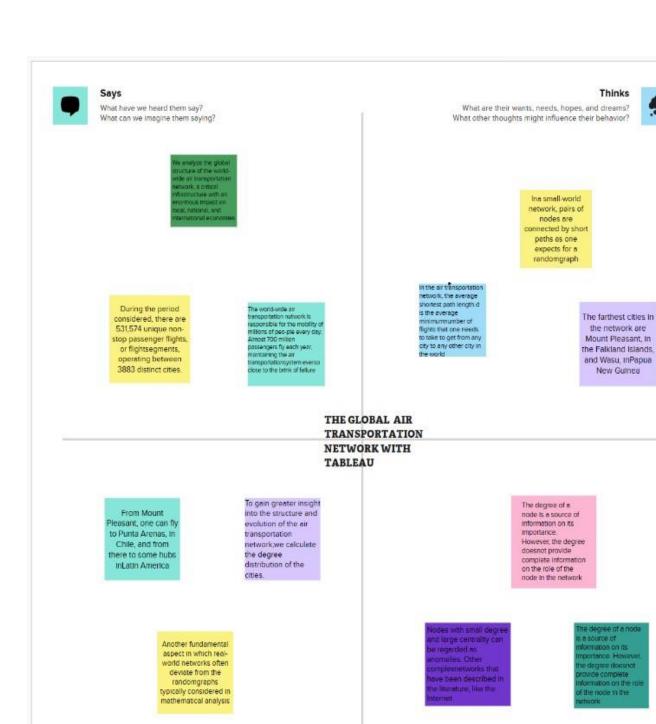
• It contains information such as names, cities, countries, codes (IATA and ICAO) longitudes, latitudes and altitudes of airports across the world with detailed time zone and daylight saving time data.

PURPOSE

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. It generates economic growth, creates jobs, and facilitates international trade and tourism.



2.1 EMPATHY MAP





Does

What behavior have we observed? What can we imagine them doing?







What are their fears, frustrations, and anxieties? What other feelings might influence their behavior?



2.2 IDEATION & BRAINSTORMING MAP



Person 1

This Global Air Transportation Network dataset is a comprehensive collection of information on airports, airlines and their routes. contains information such as names, cities, countries, codes (IATA, and ICAO) longitudes, attitudes and altitudes o imports across the world with detailed time one and daylight awing 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.

Person 2

Whether for a guest, passenger or cargo, data helps to balance demand with supply to optimize revenue and profitability of its inventory and capacity.

The travel & transportation industries have never lacked data, as it's collected across every interaction point.



Person 3

rrom taver and hospitality across artines, hotels, car rental and cruise companies, each are capturing customer behaviors and experiences that contain valuable insights for the business. But travel and transportation analytics methods tend to be slow and aren't always intuitive. With Tableau, you can quickly blend and link similar data to gain the insights needed to improve revenue management and yield through data-driven pricing strategies

Person 4

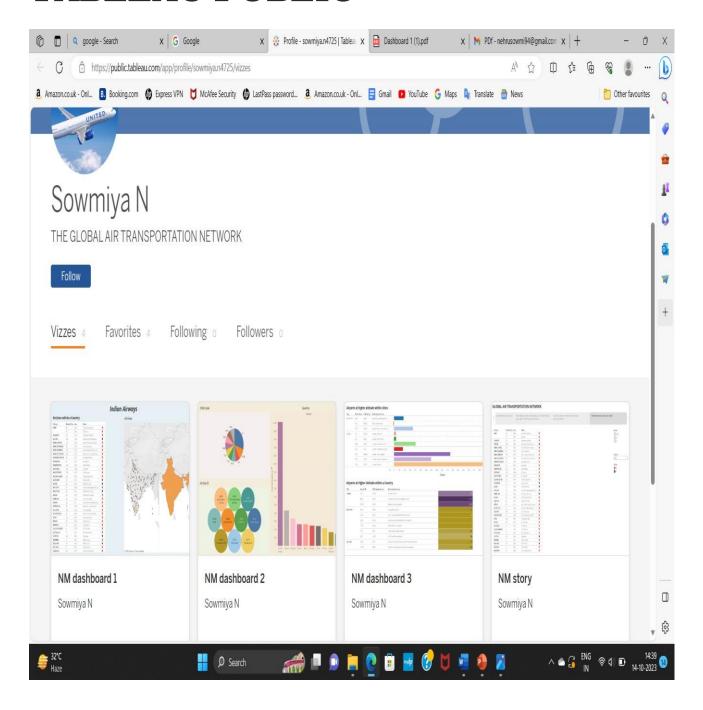
At the same time, transportation and logistics compenies across trucking, freight reil, ar delivery, maritime, and logistics service providers are trying to link disperate data

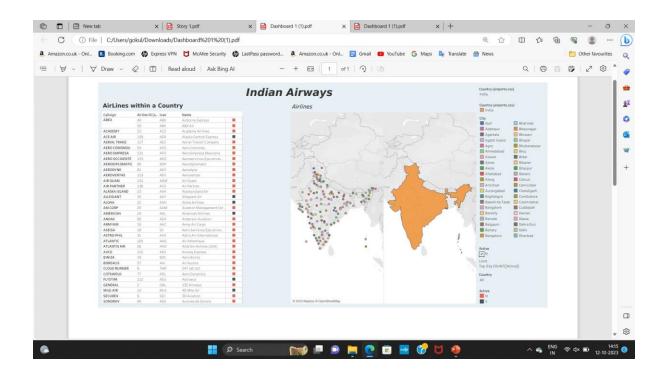


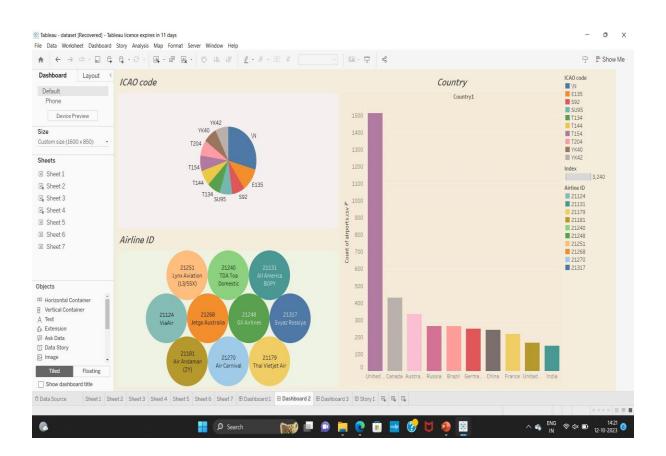
Southwest Airlines, the nation's largest carrier in terms of domestic passengers, shares their story of Tableau adoption Southwest will also share some interesting stories of how Tableau is being used across the organization and the problems it's helping

RESULT

TABLEAU PUBLIC







ADVANTAGES:-

- o Global Reach
- Reliable Timelines
- Reduced Inventory Holding Costs
- Enhanced Security
- The supreme advantage of air transport lies in its quickness

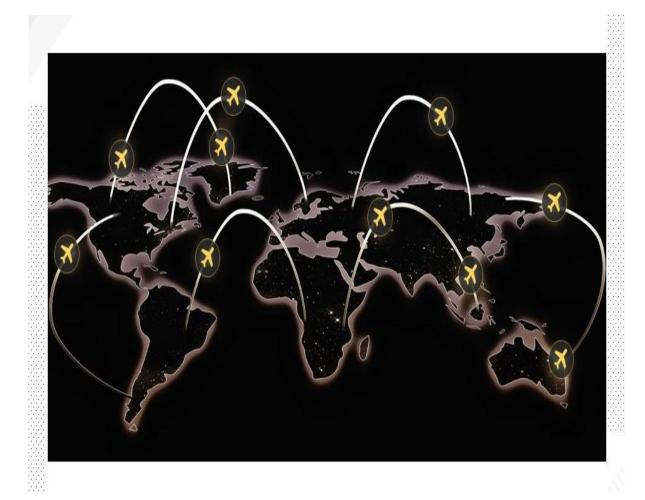


DISADVANTAGE

- o Higher Cost
- o Limited Capacity
- o Air transfer on Hazardous Goods
- o It is the fastest mode of transport
- But the cost of its operation is very high and thus it is suitable for only rich passengers

APPLICATION

The Areas Where This Solution Can Be Applied.



CONCLUSION

- o The airways transportation network is an essential part of modern life, connecting people, cultures, and economies.
- While it faces challenges related to sustainability and accessibility, it also has a remarkable capacity for innovation and adaptability.
- As the world continues to change, the air transportation industry will remain a critical driver of global connectivity and economic growth.
- o It is essential to balance its benefits with its environmental responsibilities and ensure that it serves the needs of all members of society.

FUTURE SCOPE

- o Tableau's future is promising, with a focus on AI, cloud, data governance, and enhanced user experiences.
- o It will continue to evolve to meet the ever-growing demands of businesses and data analysts while making data analytics more accessible and impactful.

APPENDIX

- The ICAO's activities have included establishing.
- Reviewing international technical standards for aircraft.
- Operation and design, crash investigation, the licensing of personnel, telecommunications, meteorology, air navigation equipment, ground facilities for air transport, and search and rescue missions.

THANK YOU