Unlocking Insights into the Global Air Transportation Network with Tableau

NM Id:NM2023TMIDO9585

INTRODUCTION

Overview

➢ The overview section provides a Tableau data visualization tool that allows us to unlock valuable insights into the global air transportation network. with its intuitive interface and robust features, we can analyze and present data in a visually compelling manner. Global air transportation network, from understanding flights routes, passengers and traffic to optimizing airline operations and improve travel experience.

Purpose

➢ The purpose of optimizing operations, cost reduction, route planning, demand forecasting, safety and security, environmental impact.
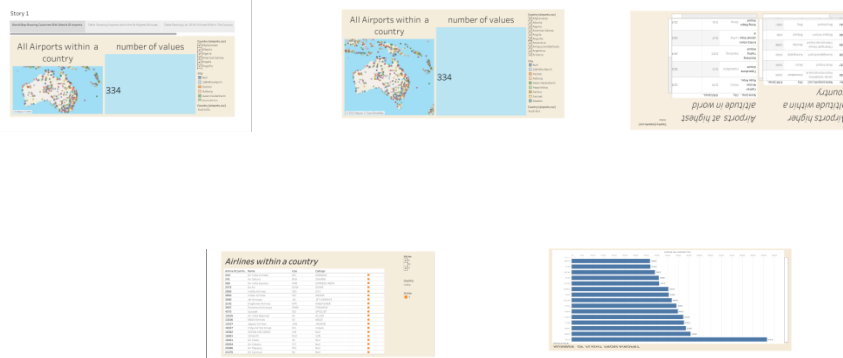
2.   **Problem Definition & Design Thinking**

Empathy Map

Ideation & Brainstorming

3. RESULT

4. ADVANTAGES & DISADVANTAGES

Advantages:

> ➢ Tableau allows you to create interactive and visually engaging dashboards, making it easier to understand complex air transportation data, such as flight routes, passenger, traffic and cargo shipments.

> ➢ Analyzing historical flight data can help airlines and logistics companies optimize flight routes.

> ➢ Tableau's data analysis capabilities can be used for predictive maintenance of aircraft, helping prevent breakdowns and improve overall feet efficiency.

Disadvantages:

> ➢ Air transportation data can be incredibly complex, with multiple variables and sources.

> ➢ Tableau can be challenging to learn, especially for those who are not familiar with data analysis and visualization tools.

> ➢ Air transportation data often contains sensitive information.

5.   APPLICATIONS

- ➢ Route optimization.
- ➢ Data freshness
- ➢ Licensing costs
- ➢ Learning curve
- ➢ Security concerns

6.   Conclusion

- ➢ In conclusion, using Tableau to unlock insights into the global air transportation network can be a powerful tool for gaining a deeper understanding of this complex system. By visualizing data, analyzing routes, passenger flows, and trends, tableau trends, tableau enables stakeholders to make informed decisions, optimize operations, and improve overall efficiency within the aviation industry. This approach not only enhances safety and security but also contributes to more sustainable in our increasingly interconnected world.

7.   FUTURE SCOPE

- ➢ Tableau   can be used to create real-time dashboard   that display live data on flight routes, passenger numbers, delays, and other key matrics , allowing airlines and airports to make more informed decision on the fly.