

UNLOCKING INSIGHTS INTO GLOBAL AIR TRANSPORTATION NETWORK

NM ID: NM2023TMID18128

1. INTRODUCTION

Overview

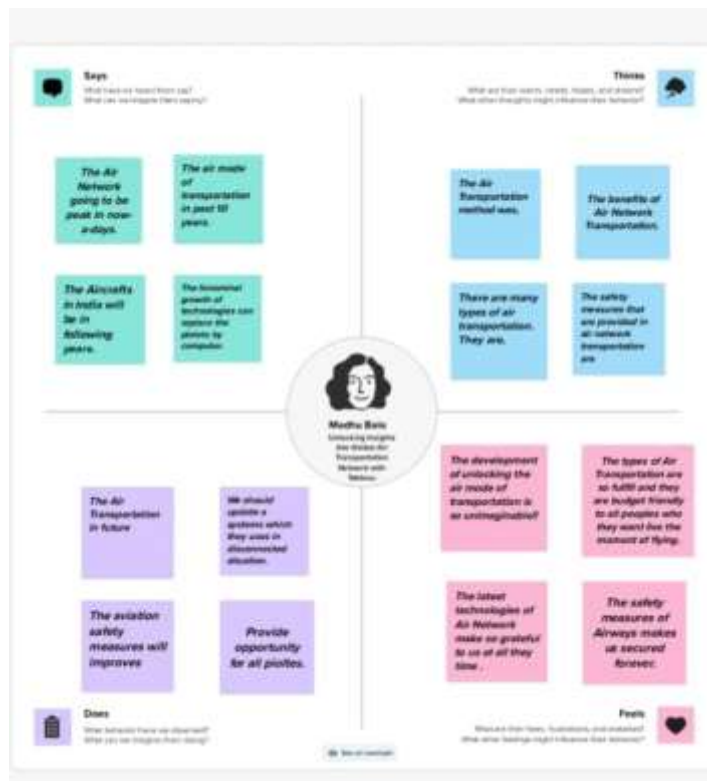
- ❖ The airports represent the ground part of the system's infrastructure handling the aircraft operated by different airlines transporting passengers and freight/cargo shipments.

Purpose

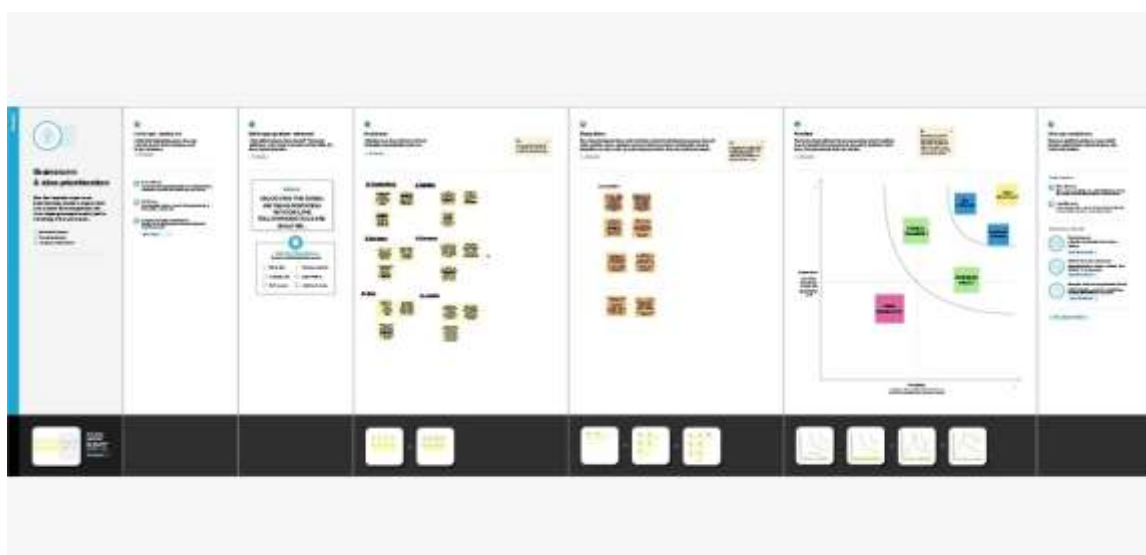
- ❖ Air transport allows people from different countries to cross international boundaries and travel other countries for personal, business, medical, and tourism purposes.
- ❖ Providing an essential link between individuals countries and the wider global economy . Air services create significant value for passengers and freight users.

2. Problem Definition & Desing Thinking

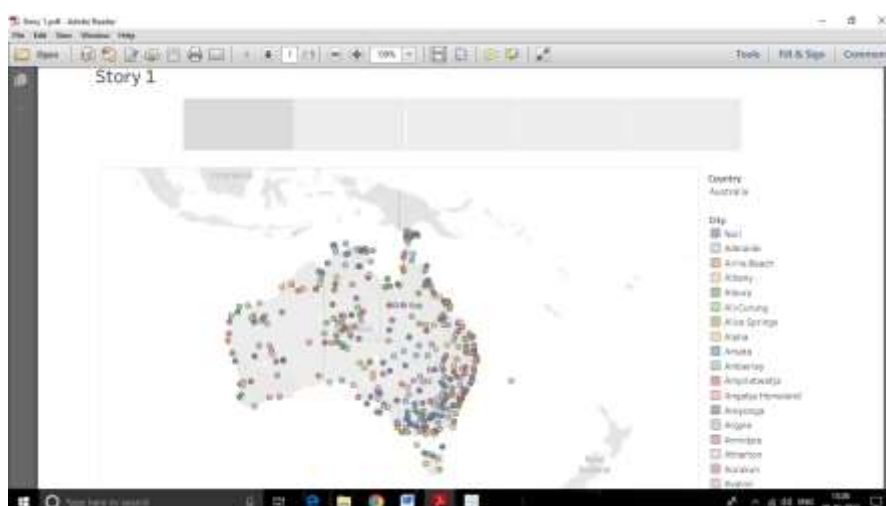
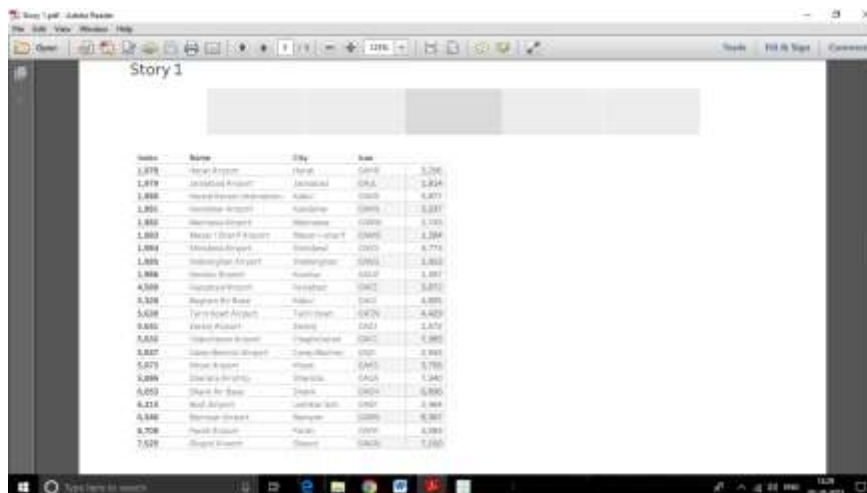
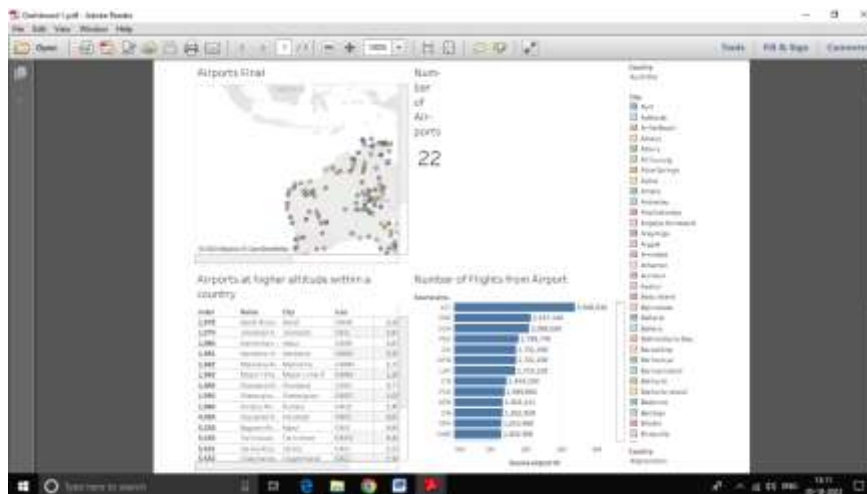
Empathy Map

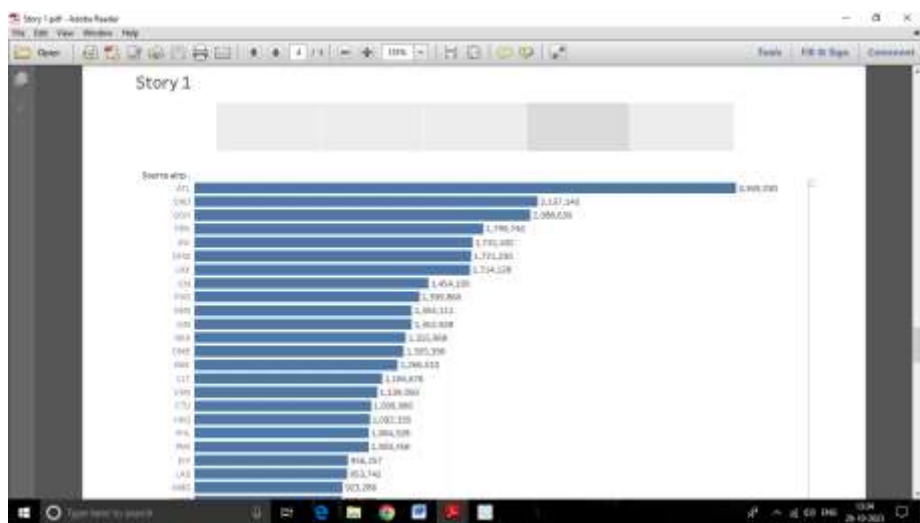
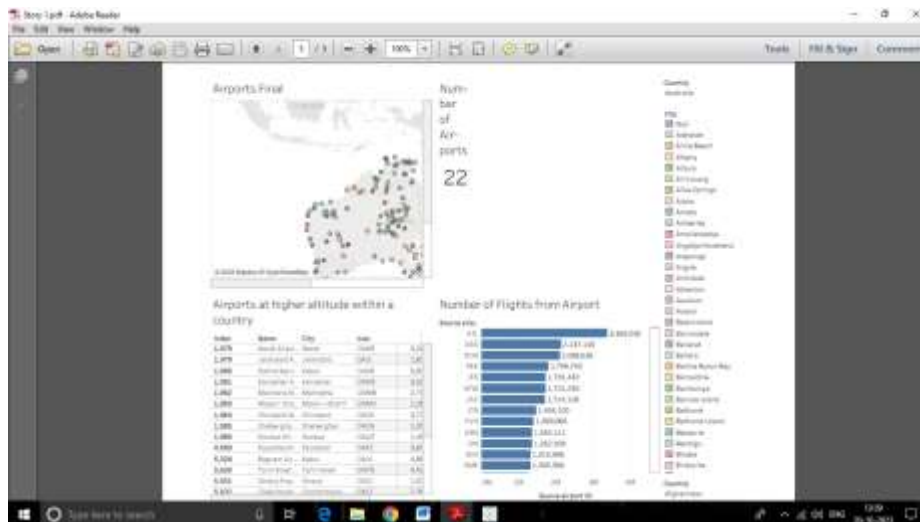


Ideation & Brainstorming Map



3. RESULT





4. ADVANTAGES & DISADVANTAGES

Advantages:

- ❖ **High Speed.** Air is the type of freight capable of traveling long distances in short periods of time. ...
- ❖ **Air transport is at the heart of global economic growth.** It creates employment, facilitates trade, enables tourism and supports sustainable development all around the world.

Disadvantages:

- ❖ **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**
- ❖ **Risky Air travel is the riskiest mode of transport, since there can be considerable losses to goods, customer and crews as a result of a minor crash and some product limitations also.**

5. APPLICATION

- ❖ **The air transport network is a key infrastructure asset. It is the only worldwide passenger and cargo transportation network, providing an essential link between individual countries and the wider global economy.**
- ❖ **Characteristics: speed, reliability in terms of cargo security, and freedom from limitations to accessing remote locations.**

6. CONCLUSION

- ❖ The Indian aviation industry has undergone significant developments and growth in recent years. The Air Transportation Network is 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.

7. FUTURE SCOPE

- ❖ The most recent estimates suggest that demand for air transport will increase by an average of 4.3% per annum over the next 20 years. If this growth path is achieved by 2036 the air transport industry will then contribute 15.5 million in direct jobs.
- ❖ Highly diverse field that offers a multitude of career opportunities, ranging from pilots and air traffic controllers to engineers and maintenance technicians. As the aviation industry continues to grow, so do the career opportunities in this field.
- ❖ As advancements like artificial intelligence, data analytics and automation revolution the industry, professionals with expertise in these areas will be high demand. They will contribute to enhancing safety, efficiency and sustainability in air transportation.