

PROJECT REPORT

UNLOCKING INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK WITH TABLEAU

1 – INTRODUCTION

1.1 OVERVIEW

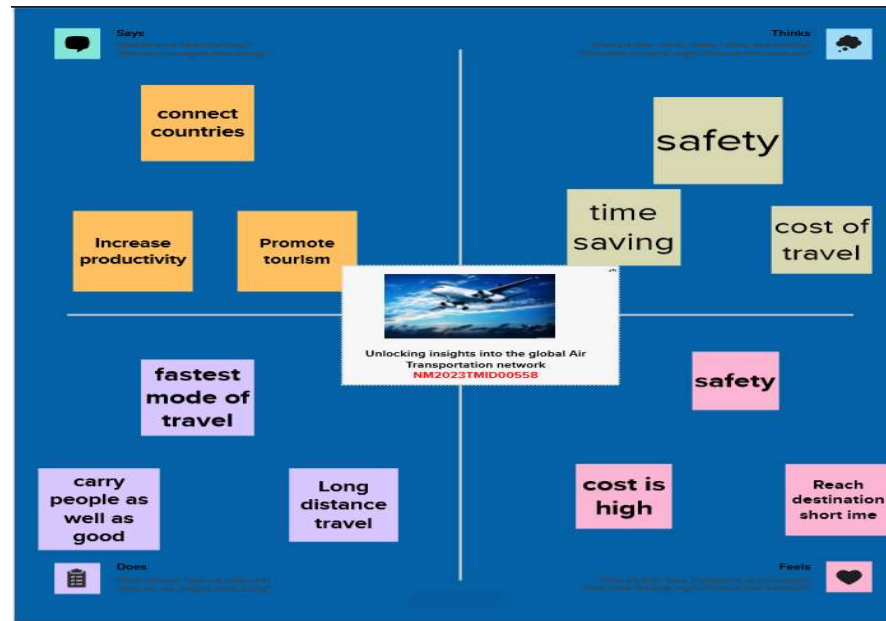
This Global Air Transportation Network dataset is a comprehensive collection of information on airports, airlines and their routes. It contains information such as names, cities, countries, codes (IATA and ICAO) longitudes, latitudes and altitudes of airports across the world with detailed time zone 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. It requires your generous donations in order for them to keep updating this data source so please do donate if possible.

1.2 PURPOSES

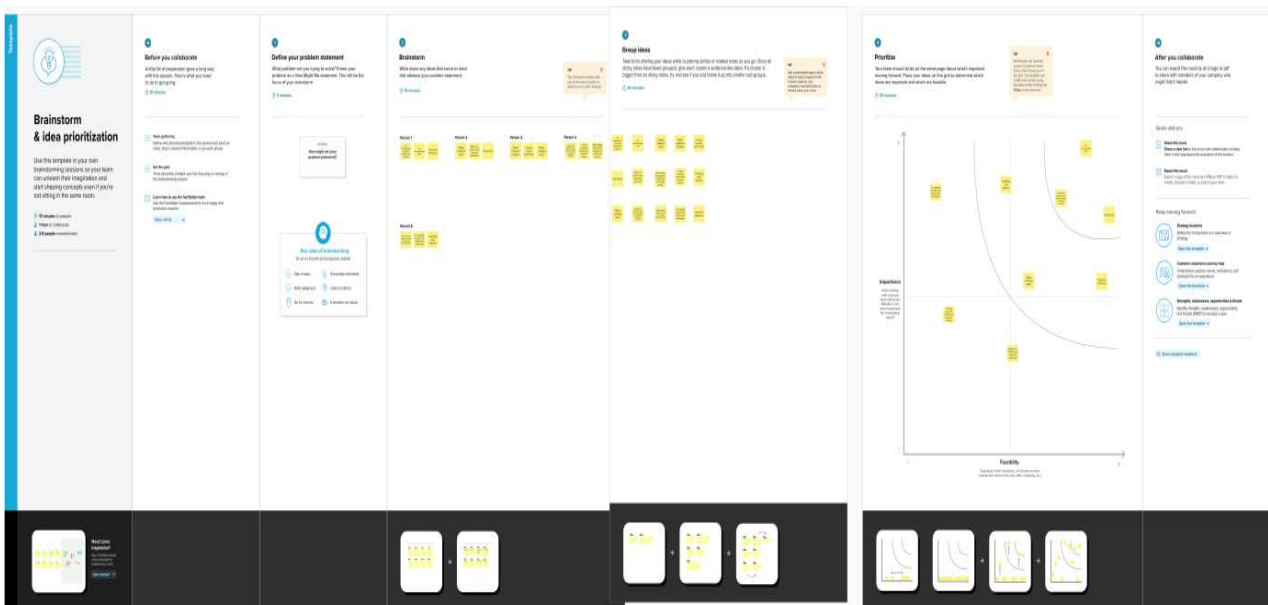
Air transport is one of the fastest modes of public transport which connects international boundaries. Air transport allows people from different countries to cross international boundaries and travel other countries for personal, business, medical, and tourism purposes. Air transport allows people from different countries to cross international boundaries and travel other countries for personal, business, medical, and tourism purposes. With the liberalization of the air transport sector worldwide, and the privatization of many state-owned airlines, the World Bank shifted its pure investment focus to incorporate capacity building, policy and regulatory support.

2 PROBLEM DEFINITION & DESIGN THINKING

2.1. EMPATHY MAP



2.2. IDEATION & BRAINSTORMING MAP



3. RESULT

3.1 SOCIAL IMPACT

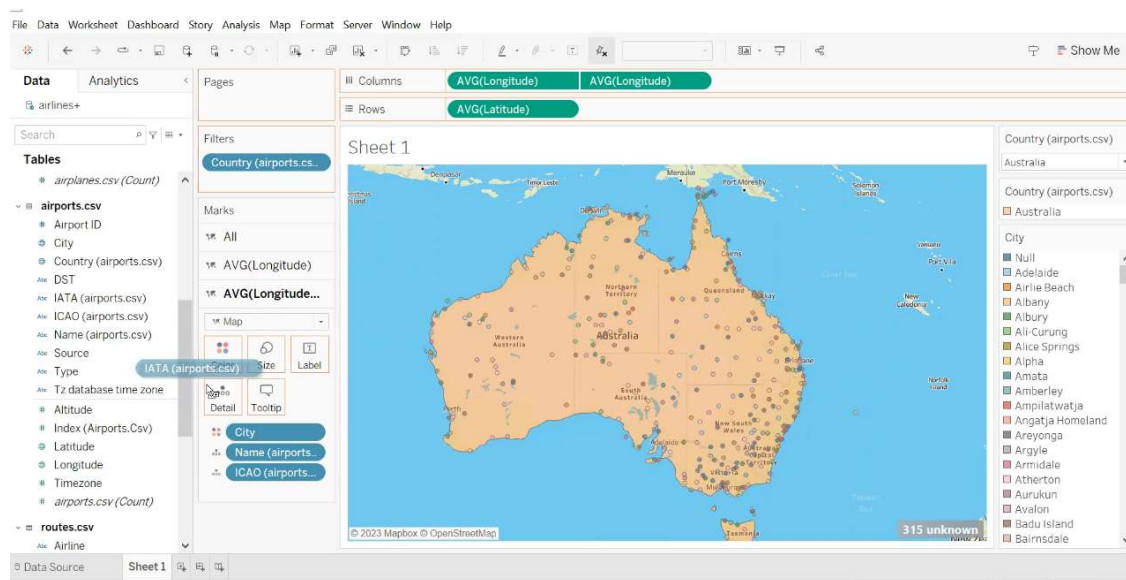
Air transport expands the range of consumer choices and opportunities to visit other countries and to experience new cultures. They are vital to development remote regions. The large number of overseas visitors has also helped widen the range of leisure and cultural activities available in many countries

Business model/ impact

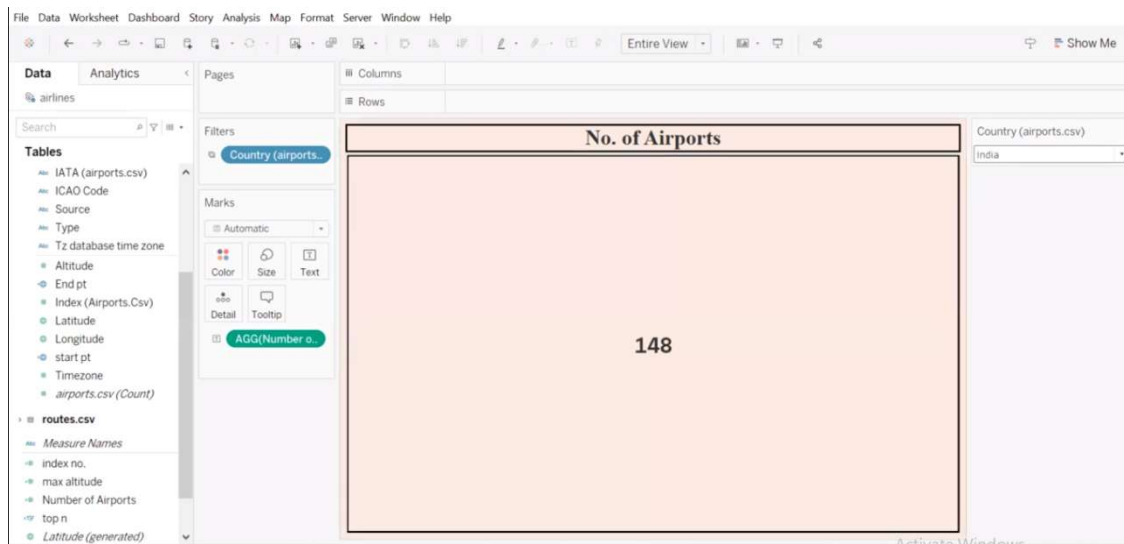
According to this, the biggest impact on the local economy is visitor spending. The tourism impact is, therefore, over 30% greater than the employment generated by the combined direct. The air transport industry finances its infrastructure through user charges and also pays taxes to national treasuries

3.2. ACTIVITY & SCREENSHOT

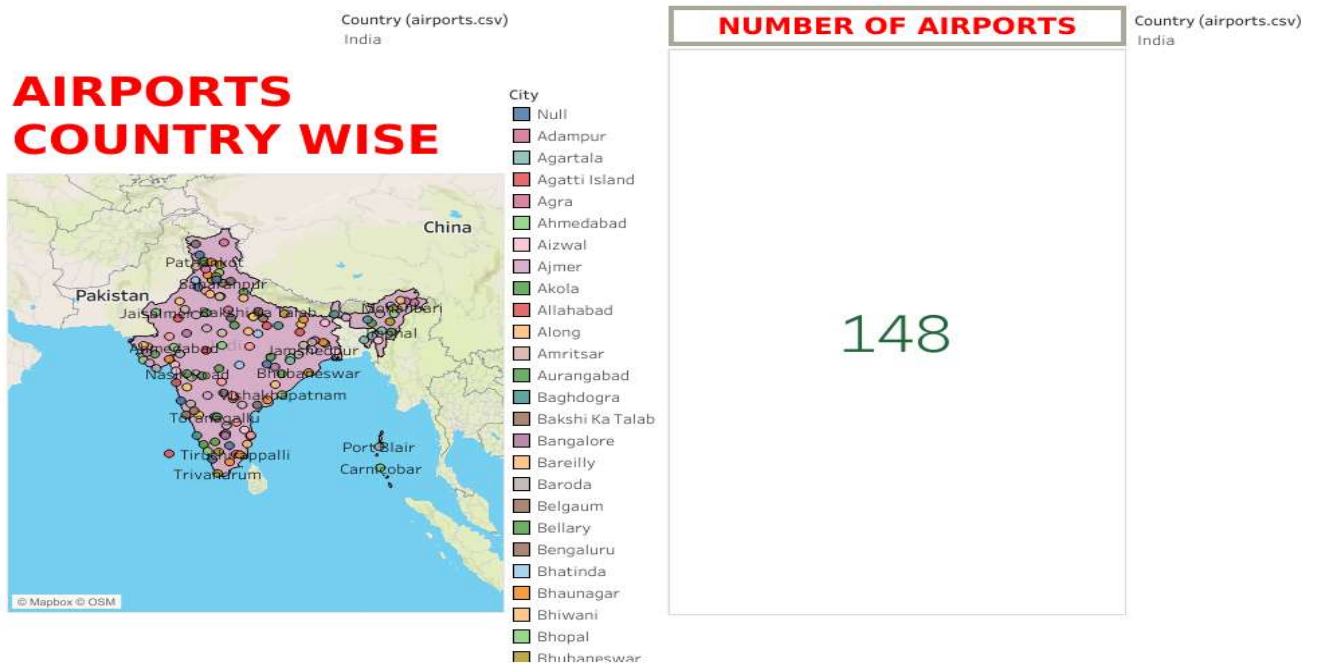
Sheet-1



Sheet- 2



Dashboard- 1



Dashboard- 2

Highlight ICAO (airports.csv)
No items highlighted

Country (airports.csv)
India

index no, 1

AIRPORTS AT HIGHEST ALTITUDE IN THE WORLD			
Name (airports.csv)	City	ICAO (airports.csv)	Altitude (m)
Daocheng Yading Airport	Daocheng	ZUDC	14,472
Qamdo Bangda Airport	Bangda	ZUBD	14,219
Kangding Airport	Kangding	ZUKD	14,042
Ngari Gunsa Airport	Shiquanhe	ZUAL	14,022
El Alto International Airport	La Paz	SLLP	13,355
Capitan Nicolas Rojas Airport	Potosi	SLPO	12,913
Yushu Batang Airport	Yushu	ZYLS	12,816
Copacabana Airport	Copacabana	SLCC	12,591
Inca Manco Capac International Airport	Juliaca	SPJL	12,552
Golog Maqin Airport	Golog	ZLGL	12,426

Airports at highest Altitude with in a country

City	ICAO (airports.csv)	Name (airports.csv)	Altitude (m)
Bangalore	VOYK	Yelahanka Air Force Station	3,045
Vishakhapatnam	VEVZ	Vishakhapatnam Airport	15
Zero	VEZO	Ziro Airport	5,403

Dashboard- 3

Country
India

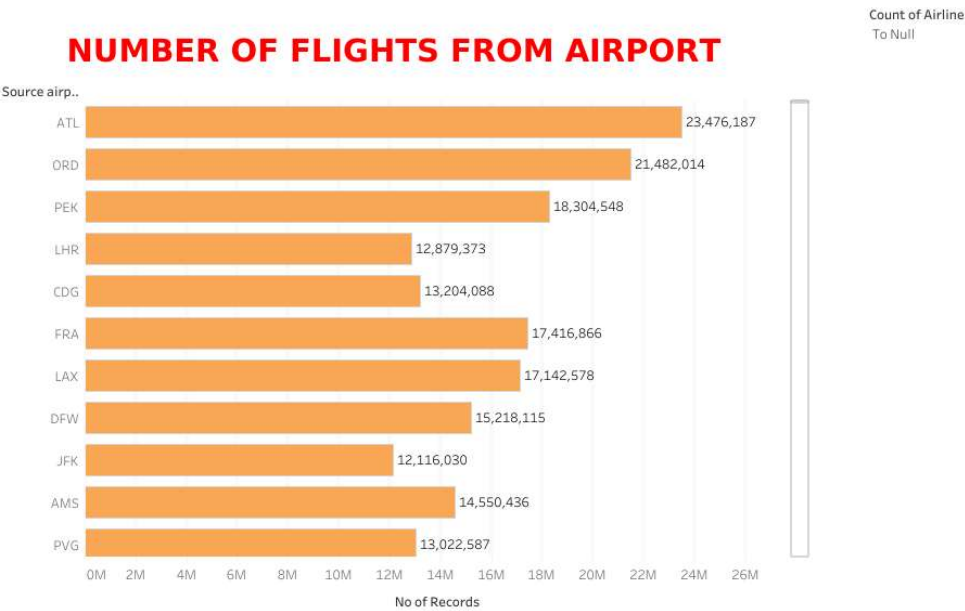
Active
All

Active
N
Y

AIRLINES WITH IN A COUNTRY

Airline..	Name	Icao	Callsign	Active
218	Air India Limited	AIC	AIRINDIA	Y
241	Air Sahara	RSR	SAHARA	Y
569	Air India Express	AKB	EXPRESS INDIA	Y
1026	Alliance Air	LLR	ALLIED	N
1370	Blue Dart Aviation	BDA	BLUE DART	N
2001	Deccan Aviation	DEK	DECCAN	N
2575	Go Air	GOW	GOAIR	Y
2634	Gujarat Airways	GUJ	GUJARATAIR	N
2850	IndiGo Airlines	IGO	IFLY	Y
2851	India International Airlines	IIL	INDIA INTER	N
2852	Indian Air Force	IFC	INDIAN AIRFORCE	N
2853	Indian Airlines	IAC	INDAIR	Y
3000	Jet Airways	JAI	JET AIRWAYS	Y
3142	Kingfisher Airlines	KFR	KINGFISHER	Y
3907	Paramount Airways	PMW	PARAWAY	Y
3918	Pawan Hans	PHE	PAWAN HANS	N
4375	Spicejet	SEJ	SPICEJET	Y
13105	Air India Regional	\N	ALLIED	Y
13106	MDLR Airlines	\N	MDLR	Y
13107	Jagson Airlines	JGN	JAGSON	Y
13905	Skyline nepc	\N	Null	N
16327	Indya Airline Group	IGI	Indyal	Y
16362	OCEAN AIR CARGO	IXO	Null	Y
16738	NEPC Airlines	\N	Null	N
16901	12 North	N12	12N	Y
19451	Air Costa	\N	Null	Y
20264	Air Vistara	VTI	Null	Y
20286	Air Pegasus	PPL	Null	Y

Dashboard- 4



Story

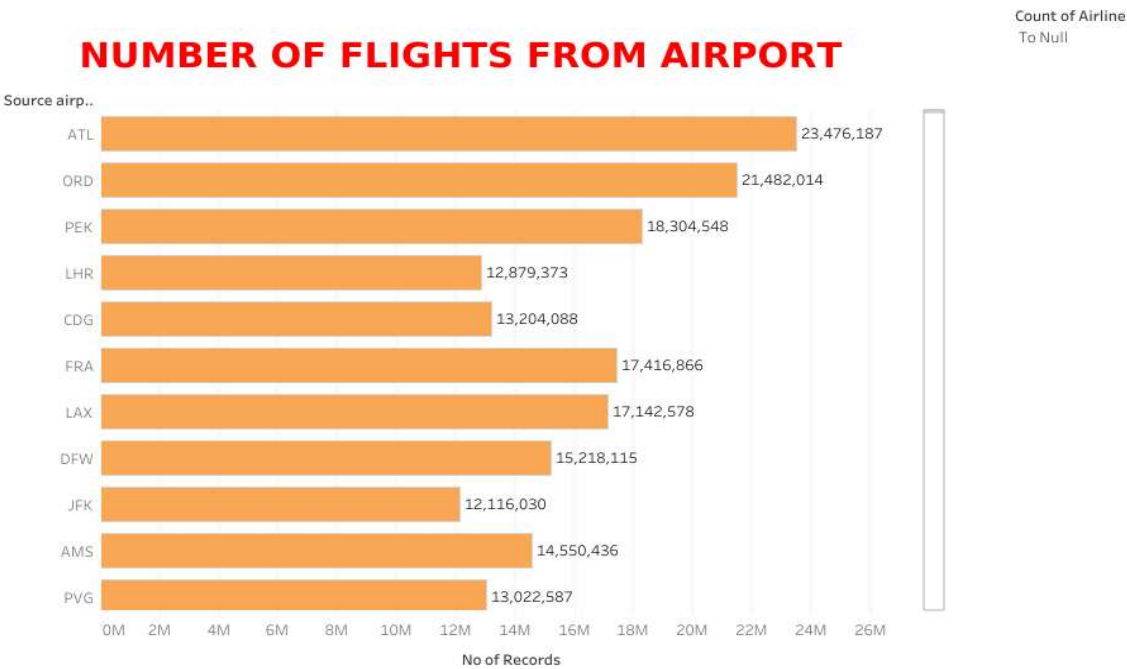
Story 1

World map showing countries with details..

Table showing airports which are at highest ..

Table showing list of all airlines within the ..

Bar graph showing countries with numb..



4. TEAM DETAILS

TEAM ID NM2023TMID00558

1	NAVEENA SHREE R	654B3B37BE4ACA4844F44FCDCFCFF1EB
2	MADHUSHA S	DCC2B72F4346B88A90F4A3AD6BEF8EBF
3	MATHUMITHA M	15BA6508A6DAA12B3994577E510AEFEC
4	PIRTHIKA M	FE5C25927E5132D91AC4284520C2323E
5	DHAHANA M	921F53251C90743A9B240A2604C55347S

5. ADVANTAGES & DISADVANTAGES

ADVANTAGES:

- In the transport of goods a characteristic type of aircraft is used to achieve an efficient and safe transport service.
- It has recently developed very effectively for the shipment of goods.
- Last delivery times.

DISADVANTAGES:

- Higher cost
- Undependable & risky

6. APPLICATIONS

- Air transport enables highly perishable & valuable products to moved fast over long distance.
- It help us to explore & travel all over the world.
- Through this database we can find out how many airports are in the world.

7. CONCLUSION

The Air transportations not only a vital engine of global socio-economic growth but is also of vital importance as a catalyst for economic development in most countries and for many regions within each country. It provides businesses with numerous benefits, including speed, flexibility, efficiency and reduce risk of damage or loss.

8. FUTURESCOPE

The future of the aviation industry in India is likely to see continued growth and expansion driven by factors such as a growing middle class increased tourism and government policies supporting the industry. Emerging technologies are reshaping with robotics, artificial Intelligence, the internet of things, unwanted aircraft systems and the push for hybrid and electric airplanes.

9. APPENDIX

SOURCE CODE-DASHBOARD 1

https://public.tableau.com/views/Dashboard1_16953672087480/Dashboard1?:language=en-GB&:display_count=n&:origin=viz_share_link

SOURCECODE-DASHBOARD 2

https://public.tableau.com/views/Dashboard2_16953915784350/Dashboard2?:language=en-GB&:display_count=n&:origin=viz_share_link

SOURCECODE-DASHBOARD 3

https://public.tableau.com/views/Dashboard3_16953916993240/Dashboard3?:language=en-GB&:display_count=n&:origin=viz_share_link

SOURCECODE-DASHBOARD 4

https://public.tableau.com/views/Dashboard4_16953918223590/Dashboard4?:language=en-GB&:display_count=n&:origin=viz_share_link

STORY

https://public.tableau.com/views/Story_16953920006590/Story1?:language=en-GB&:display_count=n&:origin=viz_share_link