

UNLOCKING INSIGHTS INTO GLOBAL AIR TRANSPORTATION NETWORK

INTRODUCTION:

OVERVIEW

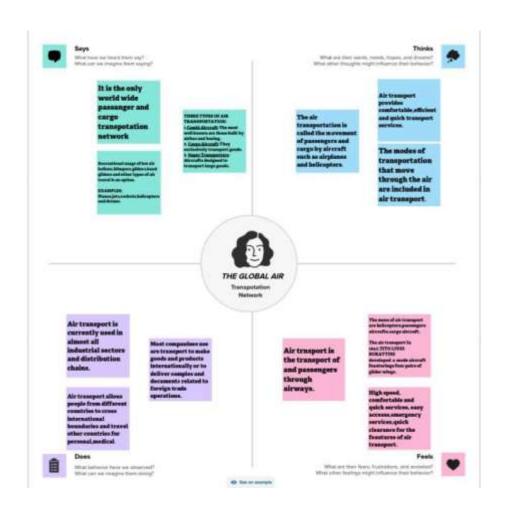
- ❖The air transportation network is a complex network which has the properties of small-world networks and scale-free networks.
- **❖**The degree distribution of the nodes displays a heavy-tailed distribution

PURPOSE

- Air transport is an important enabler to achieving economic growth and development.
- **❖**Air transport facilitates integration into the global economy and provides vital connectivity on a national, regional and international scale.

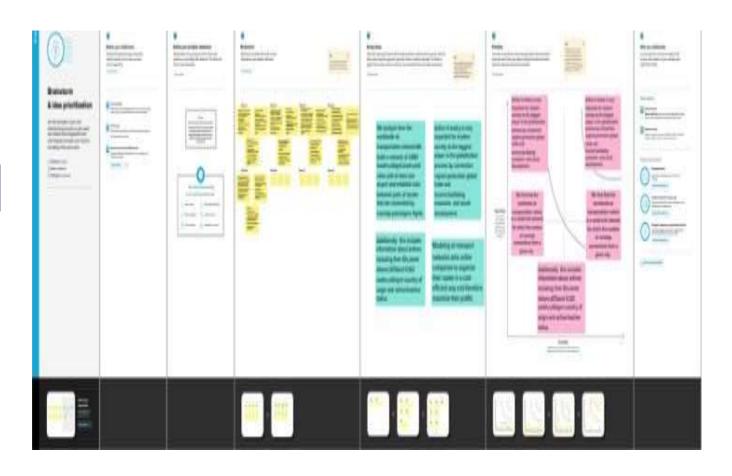
PROBLEM DEFINITION & DESIGN THINKING

EMPATHY MAP

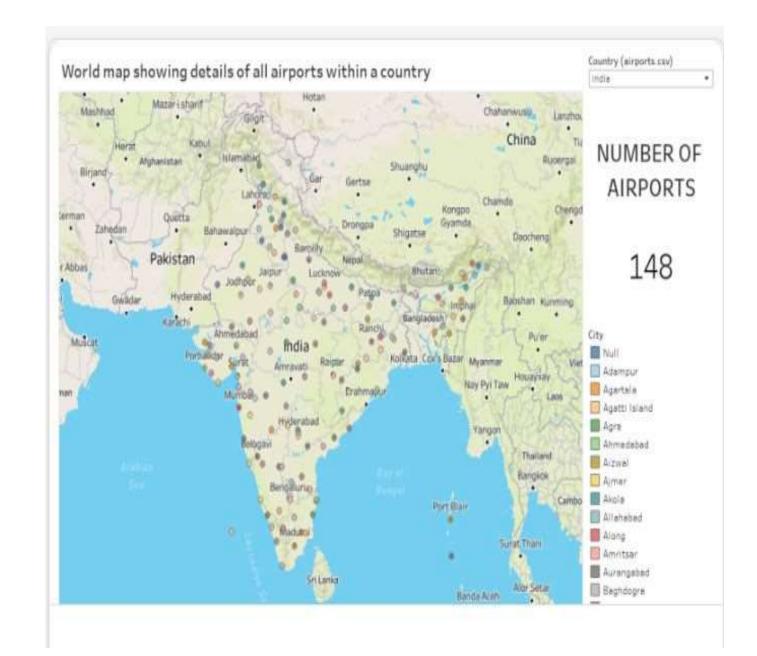


PROBLEM DEFINITION & DESIGN THINKING

BRAINSTORM



- Airport planning is a systematic process that establishes a strategy for the efficient development of airports consistent with local, state and national goals.
- ☐ In 1922, the first permanent airport and commercial terminal solely for commercial aviation was opened at near what was then Konigsberg, East Prussia.



- ☐ PC-12 planes .
- ☐ The world's highest airstrip at 16,700 feet (5,100 m).
- ☐ Topping the list at number one is Telluride Regional Airport(TEX),at an altitude of 9,078 feet.
- ☐ Located in San Miguel Country, Colorado, TEX is served by San Francisco-based commuter airline Boutique Air which files a fleet of eight-passenger Pilatus.

AIRPORTS AT HIGHER ALTITUDE WITHIN A COUNTRY

index numb	Name (airports.csv)	City	ICAO (airpo	
	Adampur Aleport	Adampur	VIAX	775
	Agartala Airport	Agartala	YEAT	46
	Agatti Airport	Agatti Island	YOAT	14
	Agra Airport	Agræ	YIAS	551
	Akola Airport	Akola	VAAN	999
	Alfahabad Airport	Allahabad	VIAL	322
	Along Airport	Along	VEAN	900
	Ambala Air Force Station	Null	VIAM	909
	Aurangabad Airport	Aurangabad	VAAU	3,911
	Bagdogra Airport	Baghdogra	VEBO	417
	Bakshi Ka Talab Air Force	Bakshi Ka Talab	VIBL	385
	Bareilly Air Force Station	Barolly	VIBY	580
	Segumpet Airport	Hyderabad	YDHY	1,742
	Belgaum Airport	Belgaum	VARM	2,487
	Selfary Airport	Bellary	VOE	30
	Bhatinda Air Force Station	Bhatinda	AIRE	662
	Bhavnagar Airport	Bhaunagar	VABV	-64
	Bhiwani Airport	Bhiwani	VIEW	720
	Bhuj Airport	Bhuj	VASI	268
	Bidar Air Force Station	Bidar	VORR	2.178
	Biju Patnaik Airport	Bhubaneswar	VEBS	138
	Bilanipur Airport.	Bitmpur	VABI	899

(airports.csv)

india

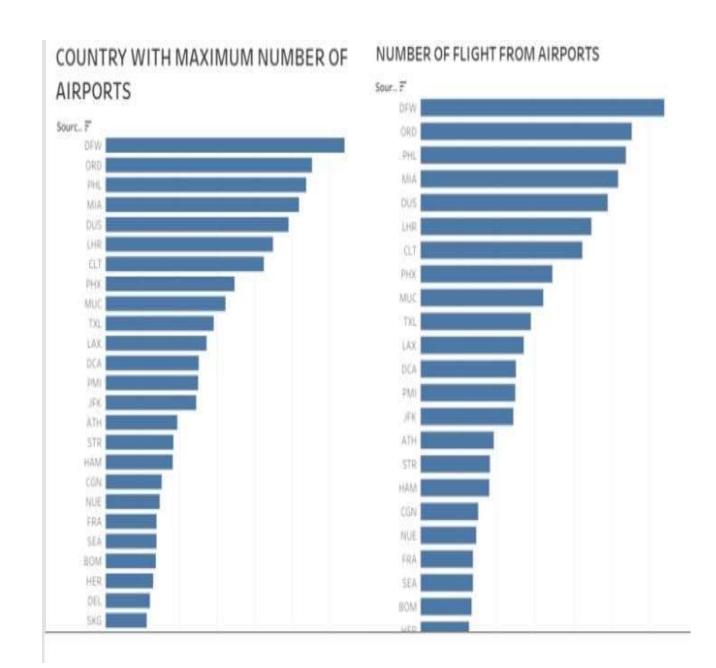
Airports at higher altitude in world

City	ICAO (airpo	
Potosi	SLPO	12,913
Copacabana	51.00	12,591
Daocheng	ZUDC	14,472
LaPaz	SUP	13,355
Golog	ZLGL	12,426
Juliaca	SPJI.	12,552
Kangding	ZUKD	14,042
Shiquanha	ZUAL	14,022
Bangda	2080	14,219
Yushu	ZYLS	12,816
	Potosi Copacatiana Daocheng La Piur Golog Juliaca Kangding Shiquanhe Bangda	Potosi SLPQ Copacabana SLCC Daocheng ZUDC La Paz SLLP Golog ZLGL Juliaca SPJR Kangding ZUKD Shiquanha ZUKD Bangda ZUBD

- ☐ The first commercial airline in present-day India was Handley Page Indo-Burmese Transport . On 15 October 1932,J.R.D. Tata flew a consignment of mail from Karachi to Juhu Airport.
- ☐ His Airline later become Air India.
- ☐ There are over 5,000 airlines with ICAO codes.
- ☐ The world's largest airline by fleet size and passengers carried is American Airlines, operating from the United States.



- ☐ United States.
- ☐ With a total of 13,513 airports, the United States has the most airports in the world.
- ☐ Airports are the authorized spaces for aircraft takeoff and landing.
- ☐ While some airports are small private and commuter hubs, we generally think of more extensive commercial flight operations when referring to airports.



ADVANTAGES & DISADVANTAGES

ADVANTAGES

□ Fast speed of transport. □ Rapid service facility. □ Low infrastructure required to establish this service.

- □No physical barriers can affect its speed.
- □ Aviation is very important in service to protect any nation.
- □ It provides a safe and secure environment to travel by valuable goods.

DISADVANTAGES

- **□**Costlier than other modes.
- ☐ Limited capacity of people or goods can move.
- ☐ Undependable and risky since it depends on weather conditions.
- □ Requires skill to fly or operate any aircraft.
- □Unfit for cheap bulky goods since travel costs can be higher than the goods cost.
- ☐ More accident prone than other modes.

CONCLUSION

- **❖** From the International Air Transport Association has been instrumental in developing and improving the air transport industry.
- ❖ From Flight planning is important for making the flight safe and efficient, where the most priority for any flights is to achieve safety, then as any commercial organization, they care about making efficient flight without compromising with safety.

THANK YOU