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UNLOCKING INSIGHTS INTO GLOBAL AIR TRANSPORTATION NETWORK

INTRODUCTION:

OVERVIEW

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

PURPOSE

- Air transportation is an important enabler to achieving economic growth and development.
- The world bank has financed aviation-related projects for over six years.

Problem Definition & Design Thinking

EMPATHY MAP



Says

What have we heard them say?

It is the world wide passanger and cargo transpotation network

Recreational usage of hot air ballons, blimpers, gliders, hand gliders and other types of air travel is an option.

THREE TYPES OF AIR

- Combi aircraft The most well known are those built by airbus and boeing.
- Cargo Aircraft They exclusively transport goods.
- 3. Super Transporters Aircrafts designed to transport large goods.

Think

What are their wants, needs, hopes, and dreams? What other thoughts might influence their behavior?



transport services.

The air transportation is called the movement of passengers and cargo by aircraft such as airplanes and helicopters.

The modes of transportation that move through the air are included in air transport.



Air transport allous people from different countries to cross international boundries and travel other countries for personal, medical

Air transport is currently used in almost all industrial sectors and distribution chains. Most companines use are transport to make goods and products internationally or to deliver samples and documents related to foreign trade operations.

The mens of air transport are helicopters, passengers aircrafts, cargo aircraft.

The air transport in 1647, TITO LIVIO BURATTINI developed a mode aircraft feauturings four pairs of glider wings.

High speed, conefortable and quick services, easy access, emergency services, quick clearance for the features of air transport.

Air transport is the transport of and passengers through airways.



Does

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

⊕ See at essentive

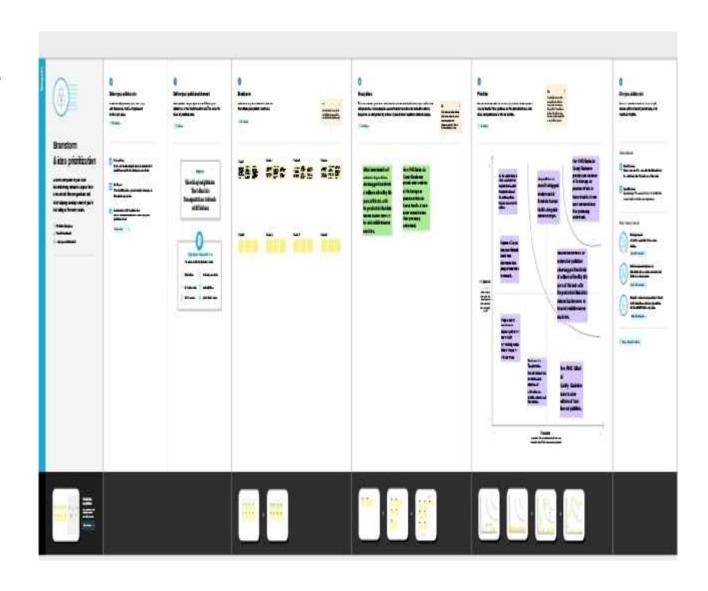
Feels

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



Problem Definition & Designs Thinking

BRAIN STORM



RESULT:

- ❖ Airport planning is a systemic 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 Flughafen Drevanu near what was then Konigsberg, East Prussia.



RESULT:

- Daocheng Country, Sichuan, China-Daocheng Yading Airports; At 4,411 m (14,472 ft) above sea level, Daocheng Yading is the highest civilian airport in the world.
- Daulat Beg Oldi, Ladakh, India-Daulat Beg Oldi Advanced Landing ground.
- ❖ Topping the list at number one is Telluride Regional Airport (TEX), at an altitude of 9,078 feet.

airports at highest altitude in world

Name (airports.csv)	City	ICAO (airpo	
Afutara Aerodrome	Afutara	AGAF	13,392
Aleknagik / New Airport	Aleknagik	5A8	4,773
Benson Airstrip	Uvalde	2XS8	17,022
Earl L. Small Jr. Field/	Villa Rica	20GA	20,047
Haller Airpark	Green Cove Springs	7FL4	5,317
Mobile Airport	Mobile	1AZ0	17,614
Ocean Reef Club Airport	Ocean Reef Club Airport	07FA	16,881
Sky Ranch At Carefree	Carefree	18AZ	20,875
Sun Island Resort and	South Aari Atoll	\N	16,956
Utirik Airport	Utirik Island	03N	4,509

airports at higher altitude within a country

Country (airports.)	csv)
India	

index numb	Name (airp	City	ICAO (airpo	
	Adampur Ai	Adampur	VIAX	Abc
	Agartala Ai	Agartala	VEAT	Abc
	Agatti Airp	Agatti Island	VOAT	Abc
	Agra Airport	Agra	VIAG	Abc
	Akola Airpo	Akola	VAAK	Abc
	Allahabad A	Allahabad	VIAL	Abc
	Along Airpo	Along	VEAN	Abc
	Ambala Air	Null	VIAM	Abc
	Aurangaba	Aurangabad	VAAU	Abc
	Bagdogra A	Baghdogra	VEBD	Abc
	Bakshi Ka T.,	Bakshi Ka T.,	VIBL	Abc
	Bareilly Air	Bareilly	VIBY	Abc
	Begumpet	Hyderabad	VOHY	Abc
	Belgaum Ai	Belgaum	VABM	Abc
	Bellary Airp	Bellary	VOBI	Abc
	Bhatinda Ai	Bhatinda	VIBT	Abc
	Bhavnagar	Bhaunagar	VABV	Abc
	Bhiwani Air	Bhiwani	VIBW	Abc
	Bhuj Airport	Bhuj	VABJ	Abc
	Bidar Air Fo	Bidar	VOBR	Abc
	Biju Patnai	Bhubanesw	VEBS	Abc
	Bilaspur Air	Bilaspur	VABI	Abc

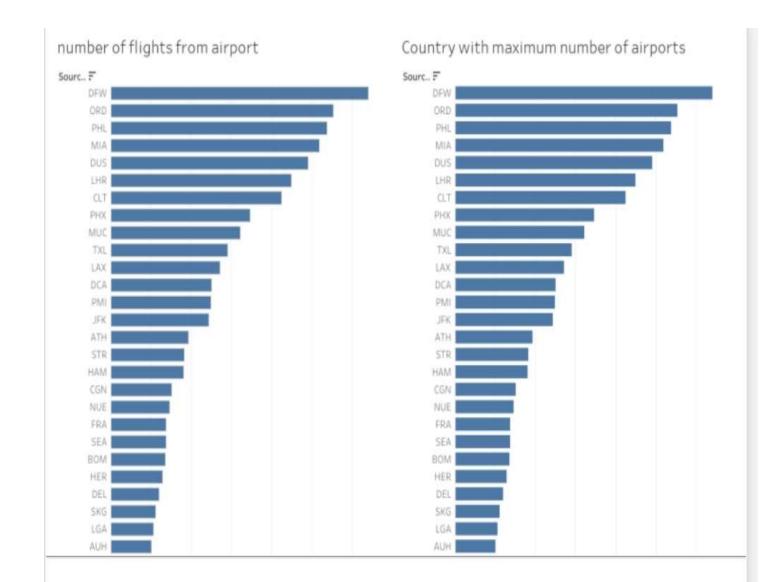
RESULT

- The first commercial airline in present-day India was Handley page into-Burmese Transport.
- On 15 October 1932, J.R.D. Tata flew a consignment of mail from Karachi to Juhu Airport.
- ❖ 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.



RESULT

- 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.
- United States with a total of 13,513 airports, the United States has the most airport in the world.



ADVANTAGES & DISADVANTGES

ADVANTAGES

- **❖** Fast speed of transport.
- **❖**Rapid sevice 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 Asssociation 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