

PROJECT REPORT TAMPALATE

UNLOCKING INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK WITH TABLEAU

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I.INTRODUCTION

overview

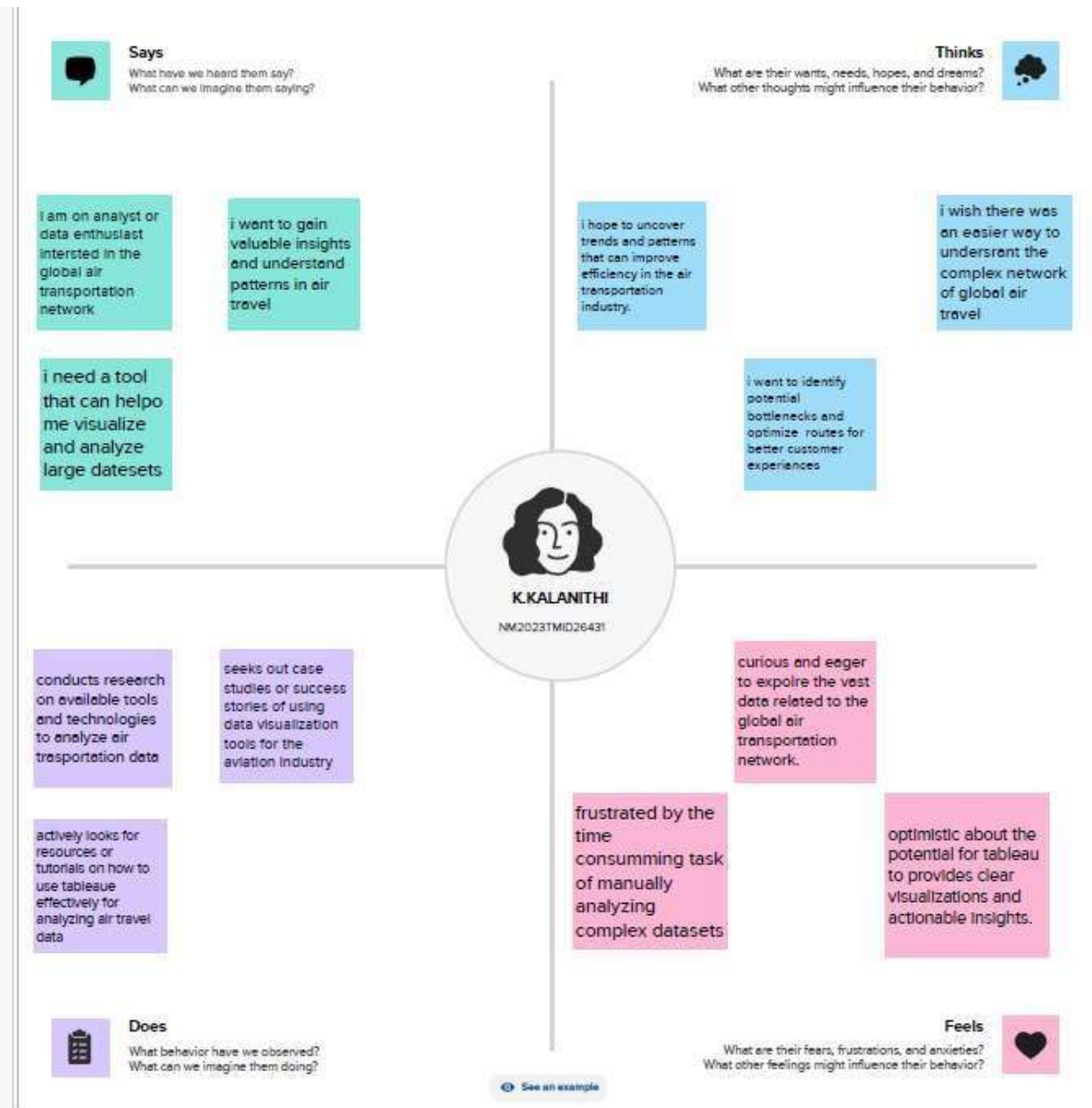
Air transport network or air transportation network (ATN) is an example of [transport networks](#) and [spatial networks](#). The nodes of the network are the airports and the links represent direct flight routes between two airports.^[1] Alternatively, cities can be considered as the nodes with links representing direct flight connection between them. Air transport networks can be defined worldwide as well as for one region or for one airline company; the scale of the network can be global or domestic.

Purpose

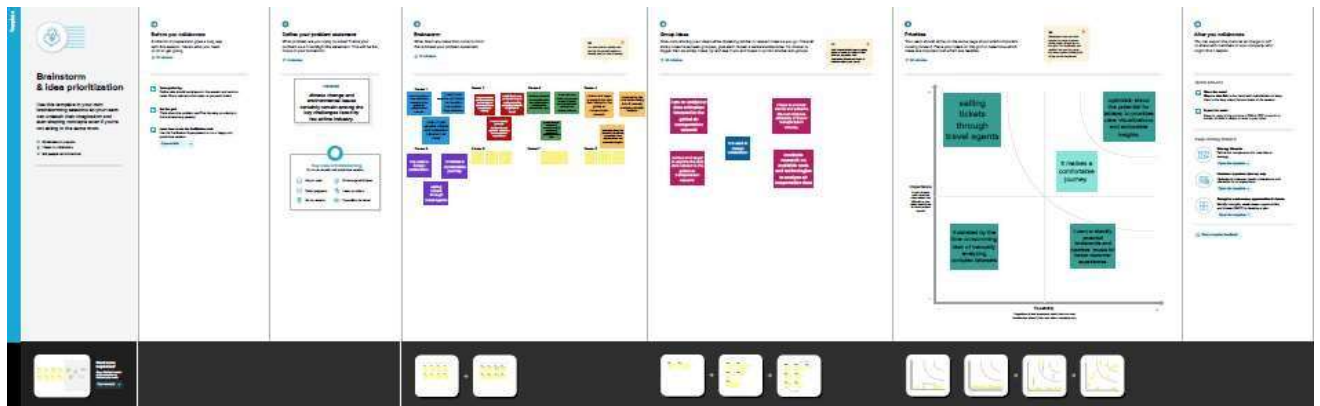
The worldwide air transport network defines communities. These communities are mainly determined by geographical factors. However, in some cases the borders of the communities are different from the borders of geographic regions. Such an example is the community of Europe and Asian Russia.

2.PROBLEM DEFINATION & DESIGN THINKING

EMPATHY MAP



IDEATION & BRAINSTORMING MAP



RESULT

DASHBOARD I

Country (airports.csv)
India

world



Country (airports.csv)
India

City

Null	Baghdogra	Bhuj
Adampur	Bakshi Ka Talab	Bidar
Agartala	Bangalore	Bikaner
Agatti Island	Bareilly	Bilaspur
Agra	Baroda	Bokaro
Ahmedabad	Belgaum	Calicut
Aizwal	Bellary	Carnicobar
Ajmer	Bengaluru	Chandigarh
Akola	Bhatinda	Coimbatore
Allahabad	Bhaunagar	Cooch-behar
Along	Bhiwani	Cuddapah
Amritsar	Bhopal	Daman
Aurangabad	Bhubaneswar	Deesa

DASHBOARD 2

Country

India

Active

Y

Sheet 6

Airline ID	Name	Icao	Callsign
218	Air India Li..	AIC	AIRINDIA
241	Air Sahara	RSH	SAHARA
569	Air India Ex..	AXB	EXPRESS IN
2575	Go Air	GOW	GOAIR
2850	IndiGo Airli..	IGO	IELY
2853	Indian Airli..	IAC	INDAIR
3000	Jet Airways	JAI	JET AIRWA..
3142	Kingfisher	KFR	KINGFISHER
3907	Paramount ..	PMW	PARAWAY
4375	Spirejet	SEJ	SPICEJET
13105	Air India Re..	\N	ALLIED
13106	MDLR Airlin..	\N	MDLR
13107	Jagson Airli..	JGN	JAGSON
16327	Indya Airlin..	IG1	Indya1
16362	OCEAN AIR ..	IXO	Null
16901	12 North	N12	12N
19451	Air Costa	\N	Null
20264	Air Vistara	VTI	Null
20286	Air Pegasus	PPI	Null
21270	Air Carnival	\N	Null

Active



Y

DASHBOARD 3

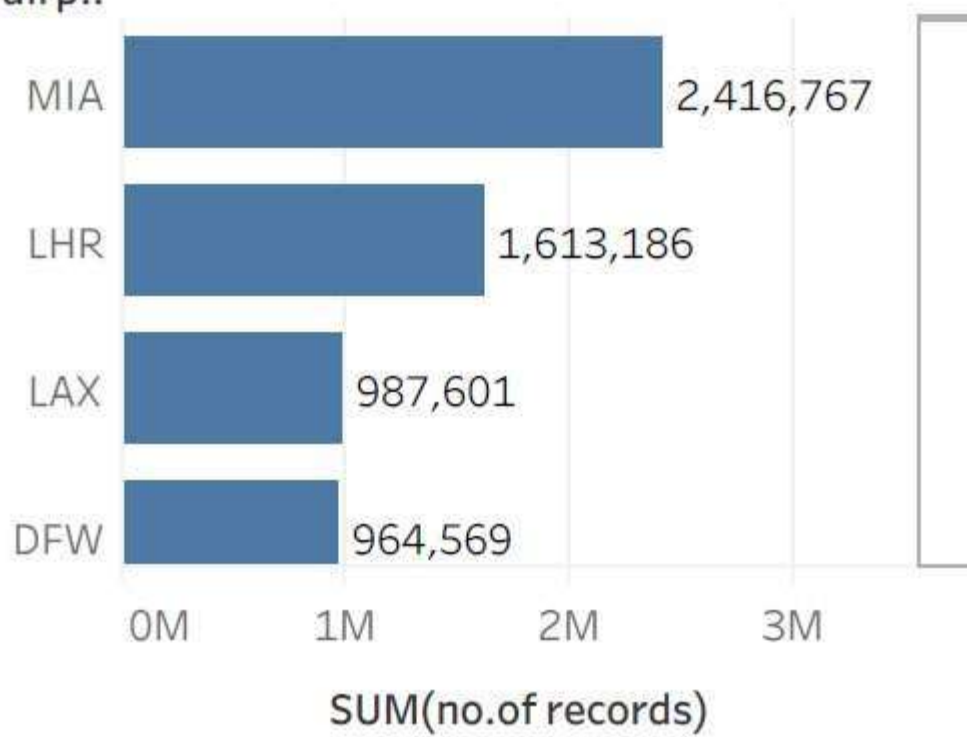
Airports at higher altitude within a country

index.no	Name (airp..	City	ICAO code	
1	Zhezkazgan Airport	Zhezkazgan	Null	2
	Yubileyniy Airfield	Baikonur	Null	3
	Ust-Kamennogorsk Airp..	Ust Kamenogorsk	Null	9

DASHBOARD 4

number of flight from airport

Source airp..



STORY 1

Story 1

world map showing
countries with details...

Airports at higher
altitude within a coun...

list of all airline within
the country

bar graphs showing
countries with airpor...



ADVANTAGES

- *Global reach reliable timelires reduced inventory holding costs enharced security
- *During earth quake,flood,accidents and famine air

Transport is used for rescue operations

*Air transport is the ideal mode for transporting perishable goods which do not have a long shelf life.

DISADVANTAGES

*Higher cost.limited capacity.restrictions on hazardous goods

*Extreme weather will cause planes to be grounded and airports to close, halting shipments for several days and rendering the service ineffective.

APPLICATIONS

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

Conclusion

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

FUTURE SCOPE:

***robotics, artificial intelligence, the internet of things, unmanned aircraft systems and the push for hybrid and electric airplanes**

***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.**