



## AIR TRANSPORTATION NETWORK



## AIR TRANSPORTATION PROBLEM

1 .Air transport is one of the fastest modes of travel. Aeroplanes can carry people , mail and lightweight goods to distant places in the shortest time possible.

### Business Problem:

- \*Fuel cost & efficiency.
- \*Aftermath of the covid-19 pandemic.
- \*Russia -ukraine conflict.
- \*Sector-wide unemployment.
- \*Airline infrastructure.
- \*Climate change.

1 .Commercial air transport is defined as an aircraft operation involving the transport of passengers, cargo or mail for remuneration or hire.

2 .Air transport networks are complex networks that span across multiple distance scales and multiplex together over 5000 airline operators and has strong inter-dependencies with socioeconomic drivers.

3.This global air transportation network dataset is a comprehensive collection of information on airports , airlines and their routes.

2 .The air transport industry has a substantial economic impact, both through its own activities and as an enabler of other industries.

# UNLOCKING INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK WITH TABLEAU

### Social impact:

- \*Air transport contributes to consumer welfare.
- \*The aviation industry is a rapidly growing sector of the economy.
- \*Air transport provides access to remote areas.
- \*Educational opportunities.

### Advantages of air transportation:

- \*High speed.
- \*Air transportation offers convenient, reliable and fast services of transport.
- \*There is less need for heavy packaging.
- \*Natural route.
- \*High standard of security.

### Disadvantages of air transportation:

- \*Air travel is considered to be the most expensive means of transportation.
- \*Climate changes.
- \*Enormous investment.
- \*Some production limitation.
- \*Capacity for small carriage.

## SOCIAL IMPACT

1 .Air transport provides significant economic and social benefits. it facilitates tourism, trade, connectivity, generates economic growth, provides jobs, improves living standards, alleviates poverty, provides a lifeline for remote communities .

### Beacons at airport:

- \*Serves as an effective advertising tool.
- \*Boost the power of personalization.
- \*Increases app-engagement and retention.
- \*Enhance the travel experience by reducing the wait-times.

## ADVANTAGES AND DISADVANTAGES

