#### DEFINITION

The Global Air Transportation Network encompasses the intricate system of interconnected routes, airlines, airports, and supporting infrastructure that facilitates the movement of passengers, cargo, and aircraft worldwide

# PROBLEM

 How might we use Tableau to optimize flight routes for airlines, reducing fuel consumption and emissions?



# Person 1

Create dynamic Tableau dashboards that integrate real-time weather data, air traffic information, and aircraft performance metrics to identify the most fuelefficient flight routes.

Develop predictive models within Tableau to anticipate air traffic congestion and reroute flights in advance to avoid fuelwasting holding patterns.

Use historical data and Tableau's analytics capabilities to assess the environmental impact of different flight paths and help airlines choose routes with lower emissions.

## Person 2

Implement Tableau as a decision support tool for route planning, allowing airlines to visualize cost savings and emissions reductions for different route options.

Integrate Tableau with existing airline systems to provide real-time feedback to pilots on fuel-efficient flying techniques, encouraging ecofriendly behaviors.

Explore Tableau's predictive analytics to optimize crew scheduling and aircraft maintenance, further reducing operational costs and environmental impact.

# Person 3

Advocate for the use of Tableau in the aviation industry to transparently track and report on airlines' efforts to reduce emissions through optimized routes.

Collaborate with Tableau experts to develop public-facing dashboards that display the environmental impact of different airlines and routes, empowering passengers to make ecoconscious choices.

Encourage airlines to share their emissions reduction goals and progress on Tableau-powered platforms, fostering competition in sustainability.

### Person 4

Partner with airlines to implement Tableau-based reporting systems that monitor and verify compliance with emissions reduction regulations.

Leverage Tableau's
data visualization
capabilities to identify
high-traffic air
corridors and propose
policies to optimize
them for reduced
emissions.

Use Tableau to analyze and present data on the economic and environmental benefits of optimizing flight routes, influencing policymakers to support such initiatives

