



# Getting Into Flight

Analysis by Jordan Scriven

# Business Understanding - Opening an Aviation Division



KEEP CUSTOMERS  
HAPPY AND SAFE



MAKE A PROFIT

# Data Understanding and Preparation

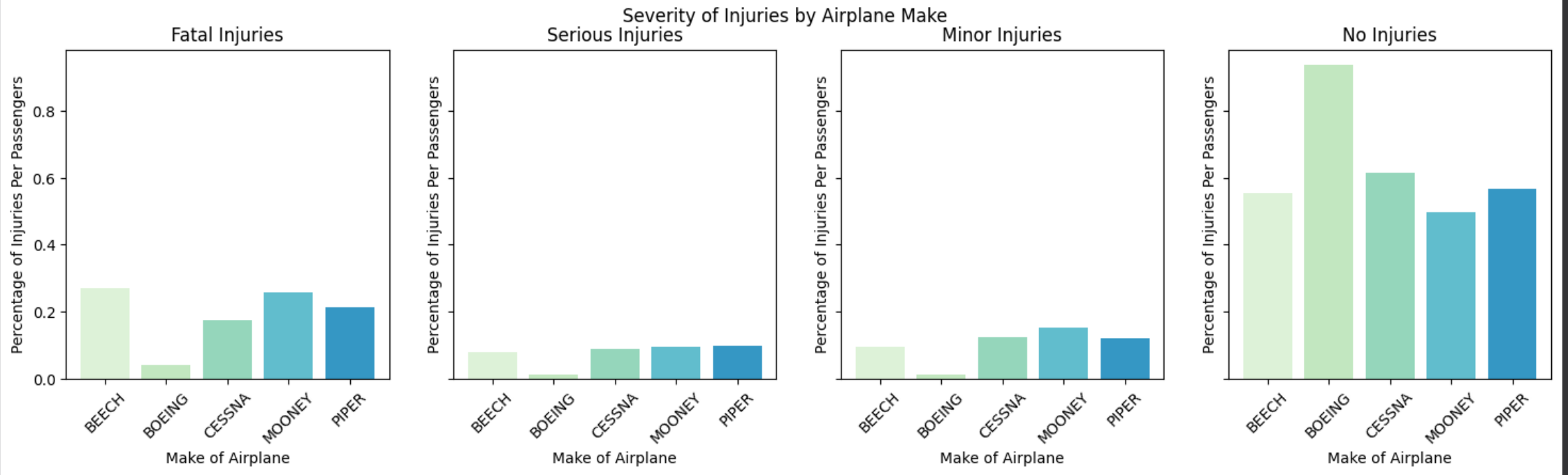
62,500 Accident/Incident Reports  
from the National Transportation  
and Safety Board

## Data Cleanup

- Rename aircraft makes
- Concentrate on airplanes only
- Drop unnecessary information
- Replace blank information

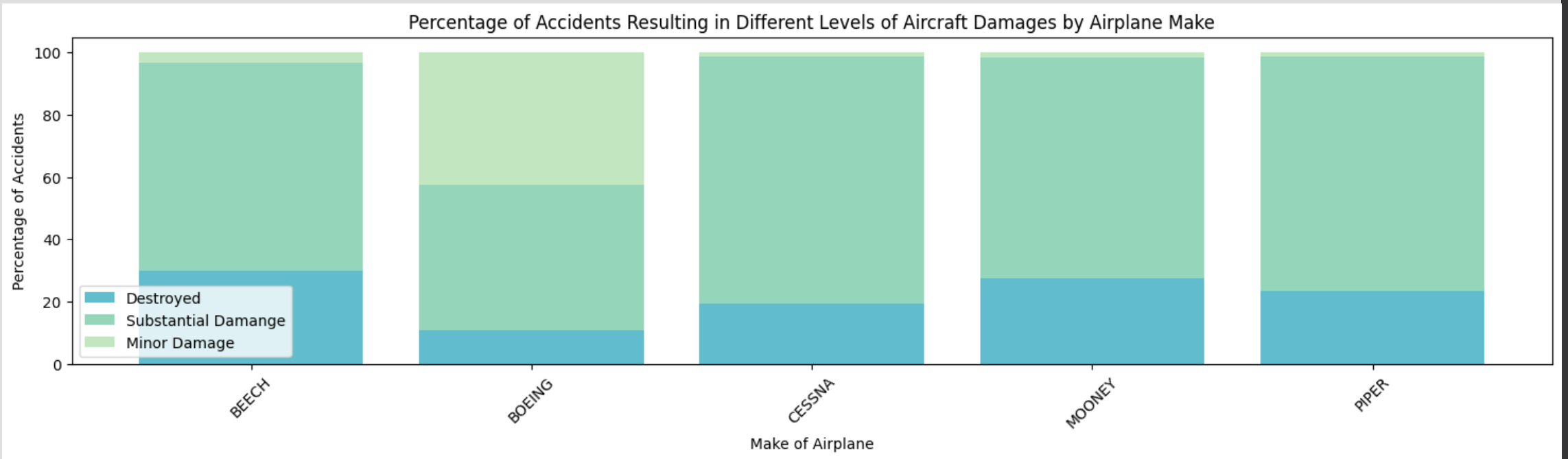
## Data Points

- Event Date
- Injury Severity
- Aircraft Damage
- Aircraft Make
- Engine Type
- Weather Condition



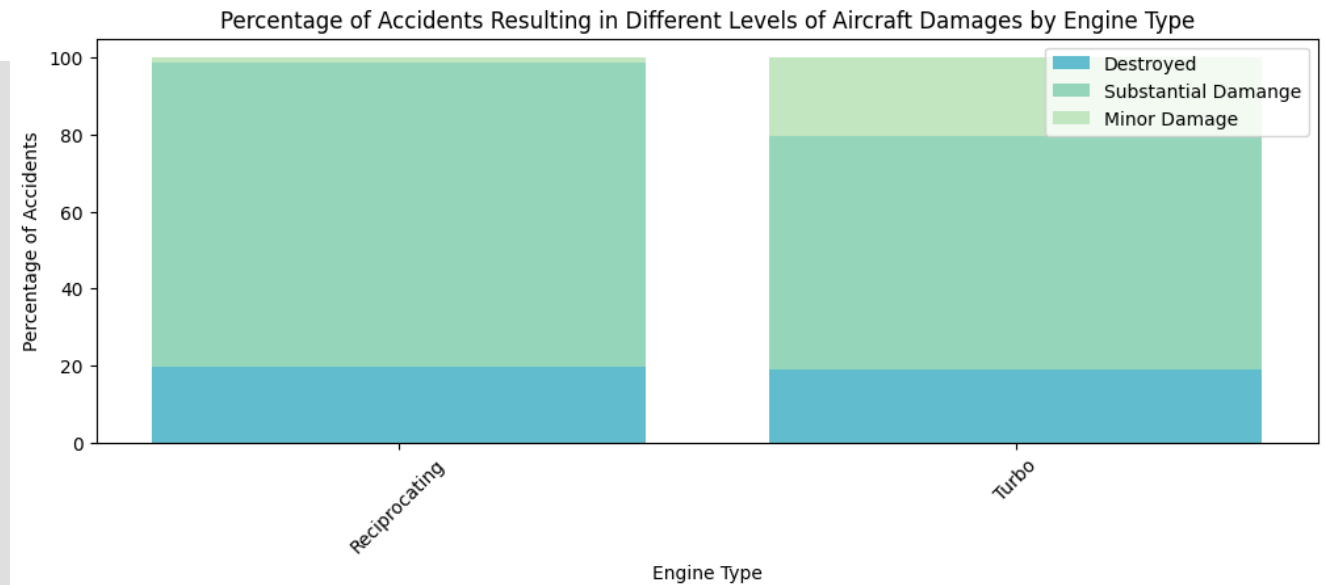
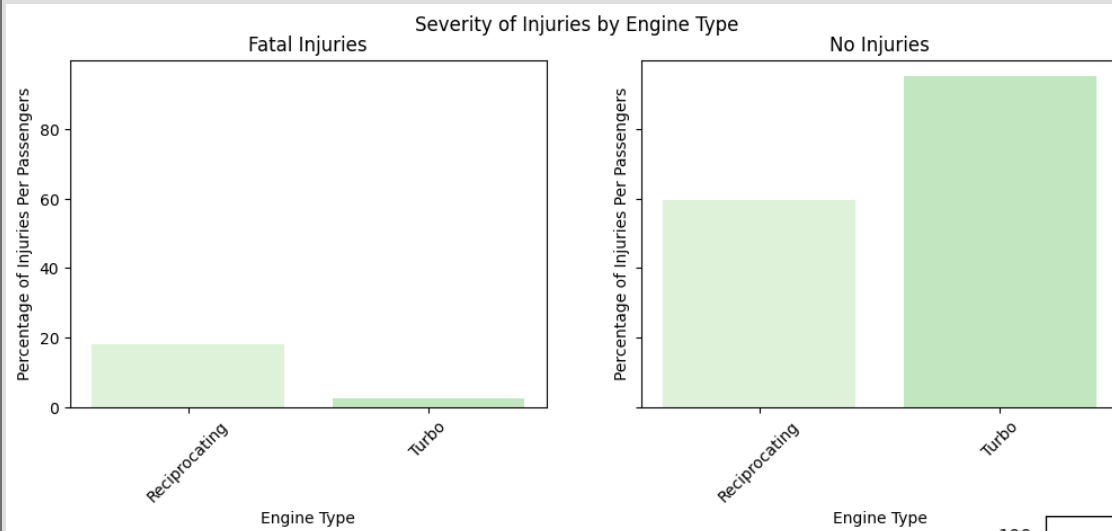
# Data Analysis Results

Does the severity of the injuries incurred in an accident depend on the airline make?



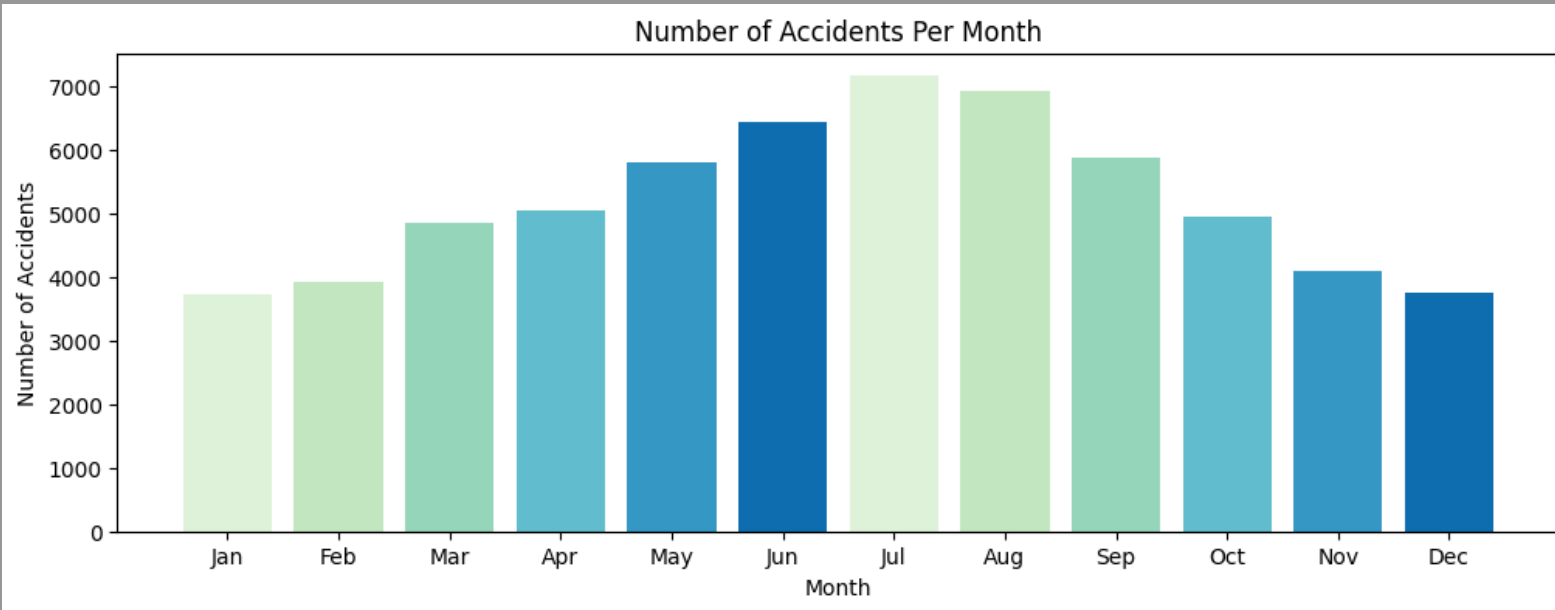
# Data Analysis Results

Does the extent of aircraft damage incurred in an accident depend on the airline make?



# Data Analysis Results

Does the severity of the injuries or the extend of aircraft damage differ based on Turbo vs. Reciprocating Engines?



# Data Analysis Results

Does the time of year change the number of accidents?

# Conclusions



**Utilize planes with turbo engines**



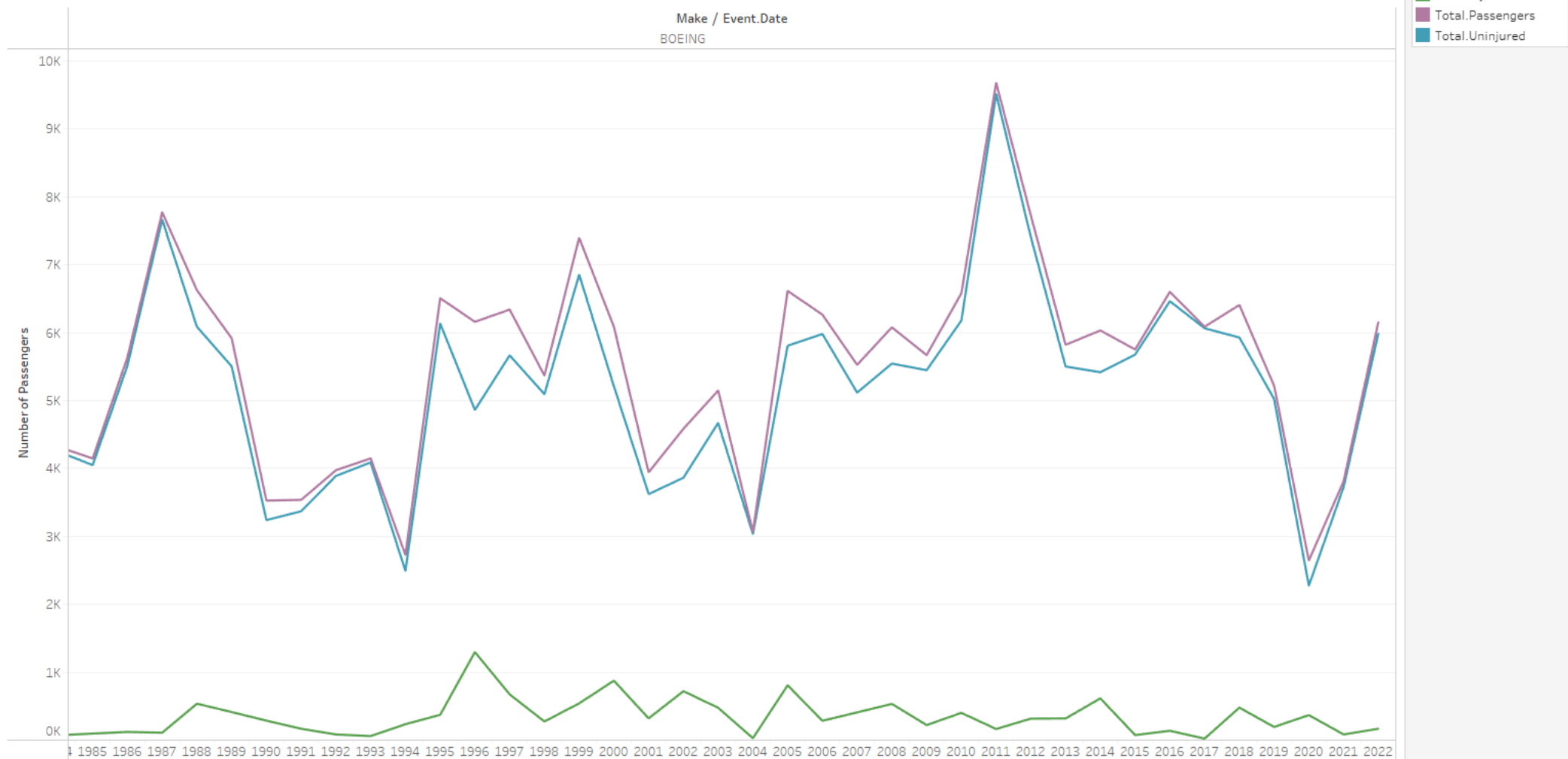
**Stay grounded when the weather is bad**



**Fly Boeing**



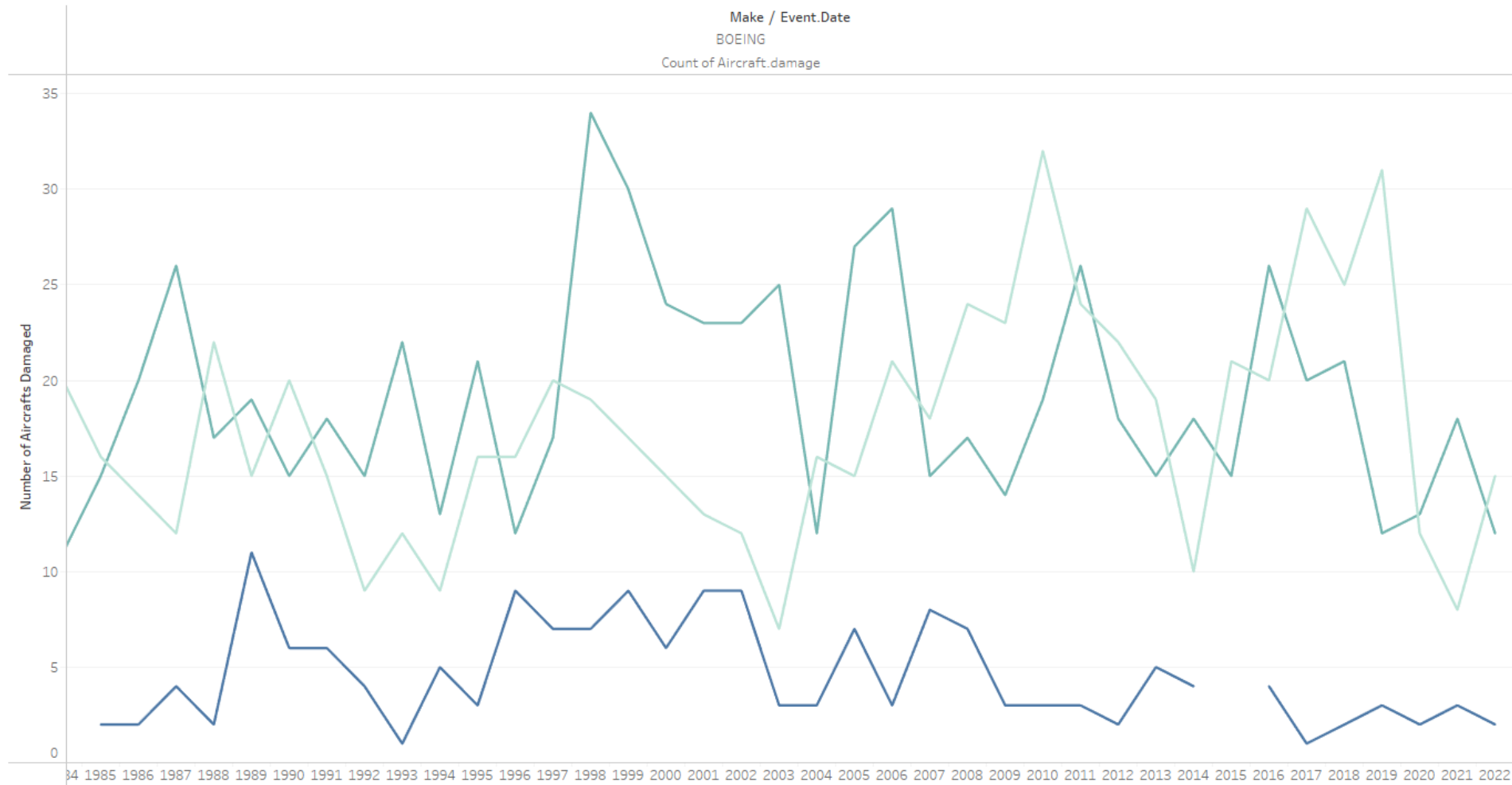
## Analysis of Boeing Injuries



# Flying Boeing

It's safe for the passengers

## Analysis of Boeing Damage



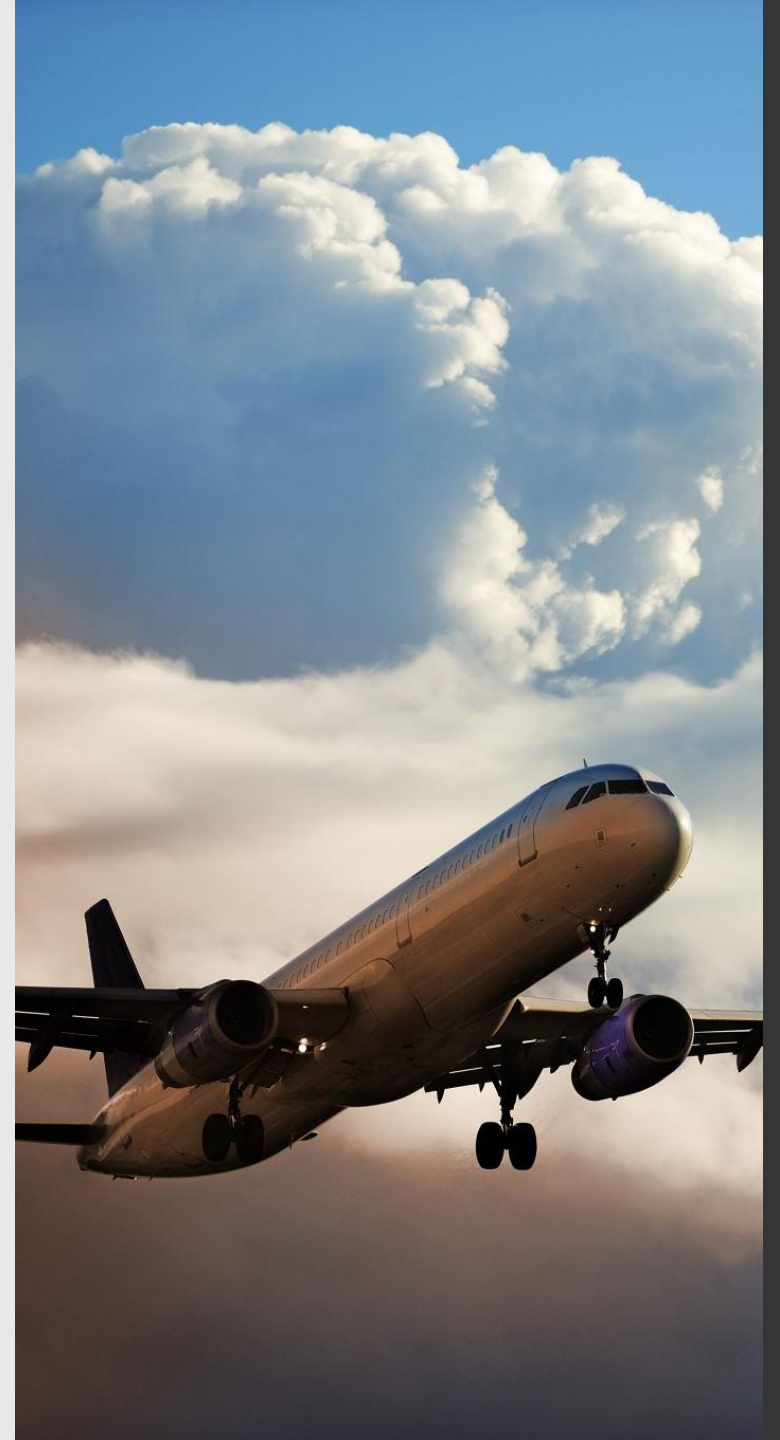
# Flying Boeing

It's cost efficient for the company

# Next Steps

Add data regarding the same information for successful flights

Model the cost



Thank you!