

# PROPOSAL: IDENTIFYING LOW-RISK AIRCRAFT FOR THE NEW AVIATION DIVISION

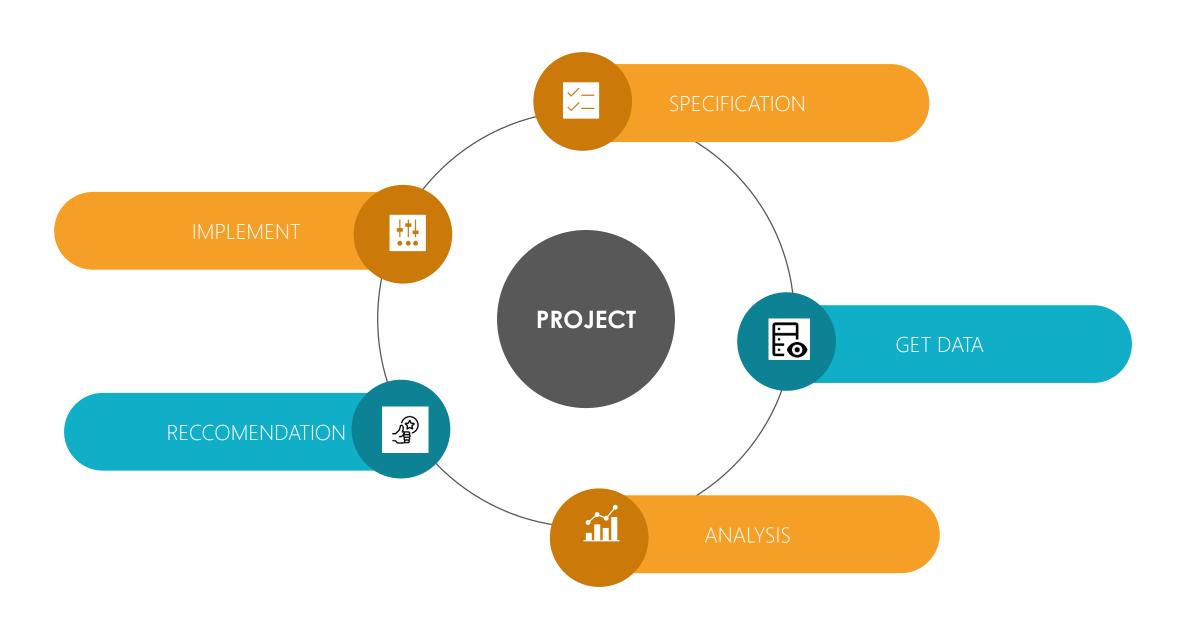
Presentation by Linda Temoet

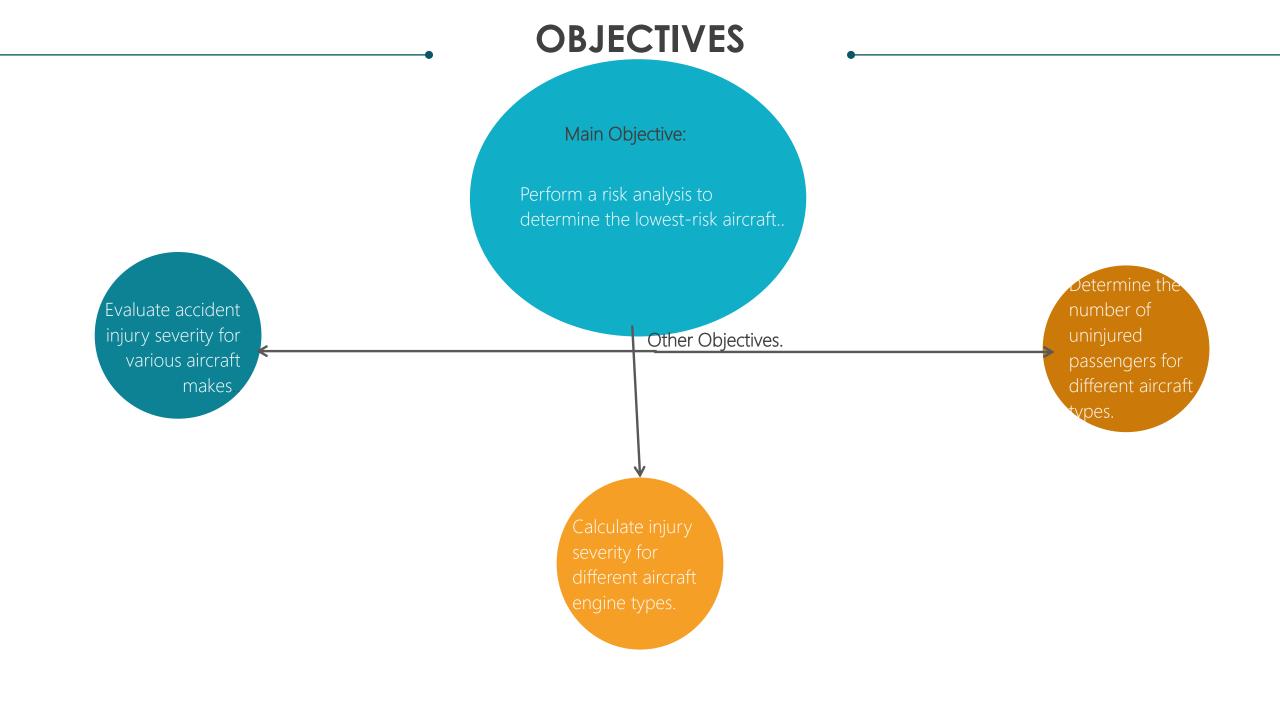
#### INTRODUCTION

- Task Overview: The company's new aviation division requires a proposal to identify the lowest-risk aircraft for its fleet. This proposal aims to provide insights into the safest aircraft models based on accident data.
- Data Source: The analysis uses a dataset from Kaggle containing aviation accident data from 1962 to 2023. The dataset covers civil aviation accidents in the United States and international waters.
- Time Period Focus: To ensure relevancy, only data from the years 2000 to 2023 was used, as aircraft technology has significantly advanced in recent decades



## PROPOSAL PROCESS





### **DATA OVERVIEW**



Data
Description

The data was obtained from Kaggle. It was Aviation

accidents

data

Tools

The tools used for analysis were python pandas. Matplotlib and Tableau were also used for Visualization



Data Used

There were 8 main columns used for analysis

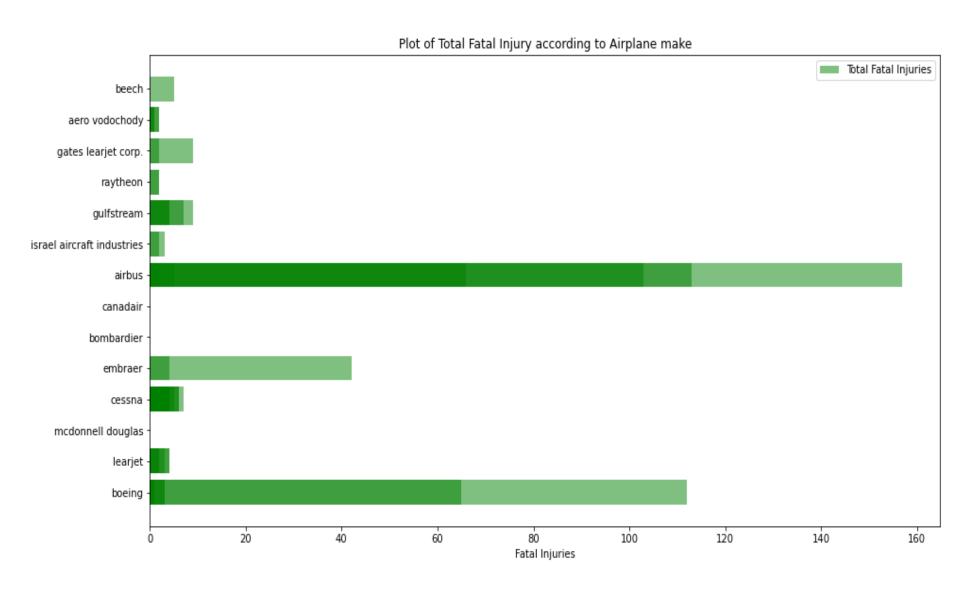
#### DATA PROCESSING

There were 4 main stages of data processing:

- 1. Filtering: Removed unnecessary sections of the data.
- 2. Cleaning: Organized and cleaned for better analysis.
- 3. Analysis: Extracted relevant data to answer objectives.
- 4. Visualization: Created visuals using Matplotlib & Tableau

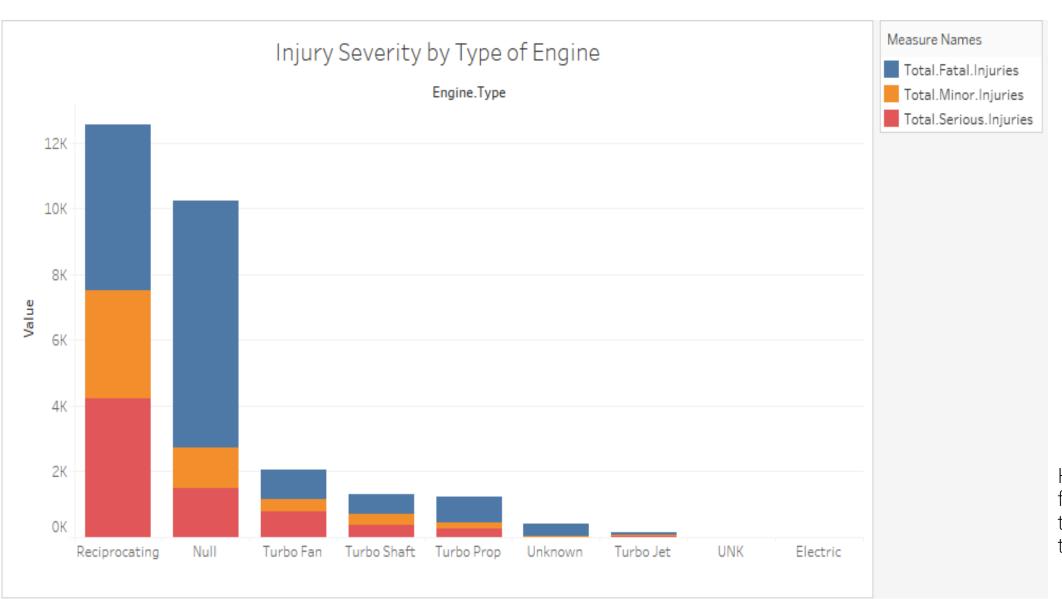


# Risk Analysis Main Objectives



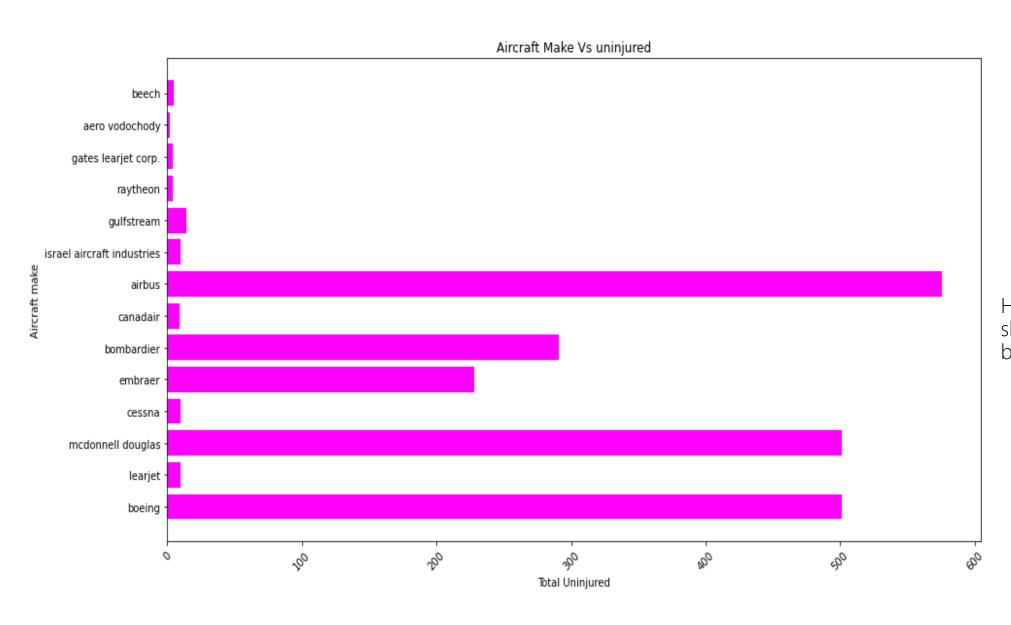
Here we have the visualization of the total fatalities by airplane make. It clearly shows the aircraft makes that have the least number of fatalities.

## **Fatalities by Engine Type**



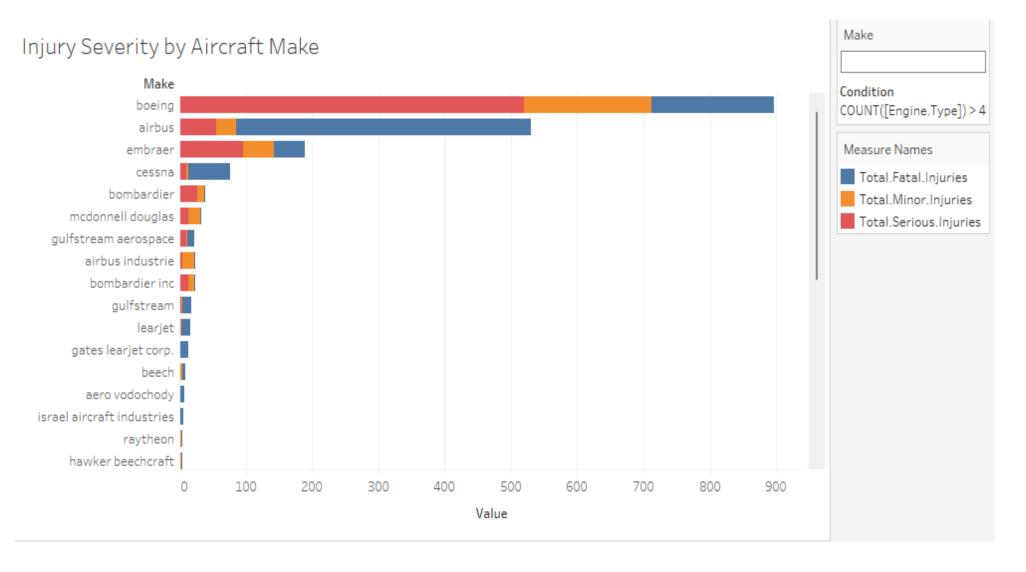
Here we see that the fatalities were lesser in the Turbo fan Engine type

## Passenger Safety



Here we have a graph that showcases passenger safety by the different aircraft makes

## **Recommendations**



From this graph, these are the 3 main aircraft recommendations:

- Mcdonnel Douglas
- 2. Bobardier
- 3. Embraer



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