BUSINESS
PRESENTATION

AIRCRAFT EVALUATION

Steps

- OVERVIEW
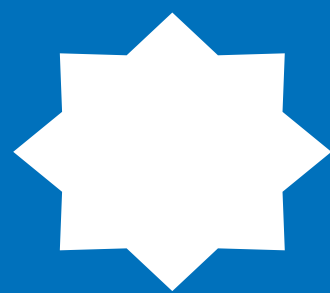
- BUSINESS UNDESTANDING

- DATA UNDERSTANDING
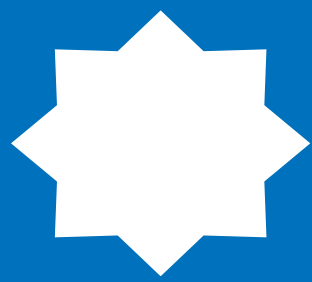
- ANALYSIS

- RECOMMENDATION

- CLOSING

✴ OVERVIEW

Welcome to ANALYTICO'S presenatation on Aircraft Risk

- **In this session, we will able to discuss various risks to consider when purchasing and operating of airplanes**

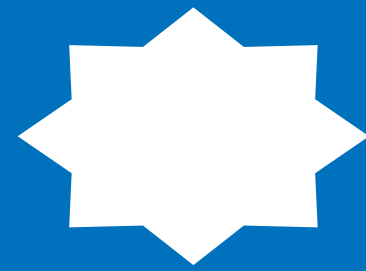- **We will also be able to see the analysis of the diffrent aircrafts and present the one with the lowest risks**

BUSSINESS UNDERSTANDING

- **We have been able to understand that you need our company to be able to help you in the seletion of an aircraft make when embarking in your new business**

- **You need us to analyse from data National Transport Safety Board and we need to analyse the aircraft make with the lowest risk**
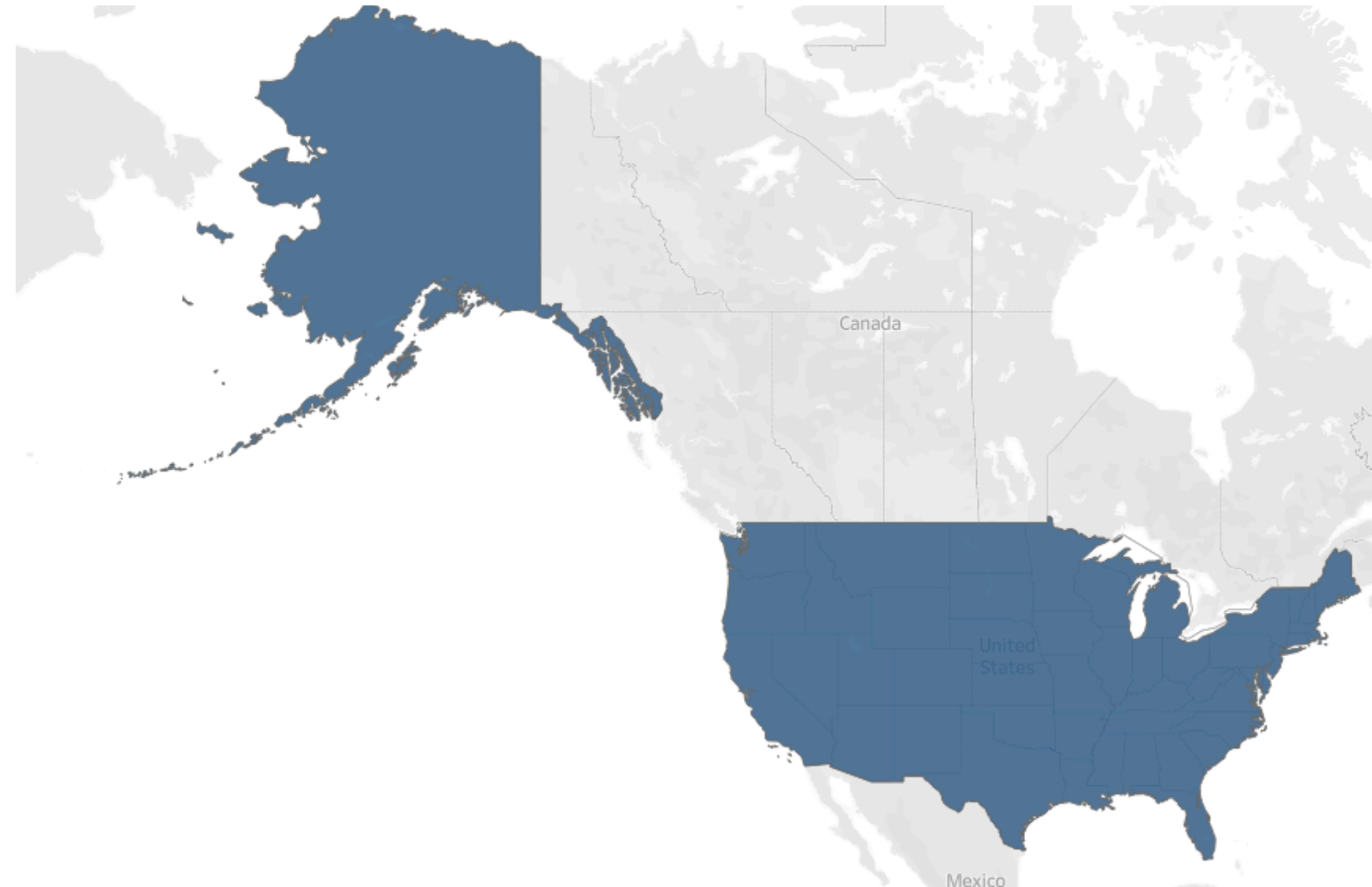
Data Understanding

- The data we are using is data that was collected by the National Transport Safety Board

- It is data that has the accidents and inncidents that have happened to aeroplanes from 1962 to 2023

- It contains the manufacturer of the aeroplanes so we will be able to identify the make of the aeroplane that have been evolved in this accidents

DATA ANALYSIS

- When we looked at the data we are able to pick some things. First we looked a the at the geographical representation of this incidents

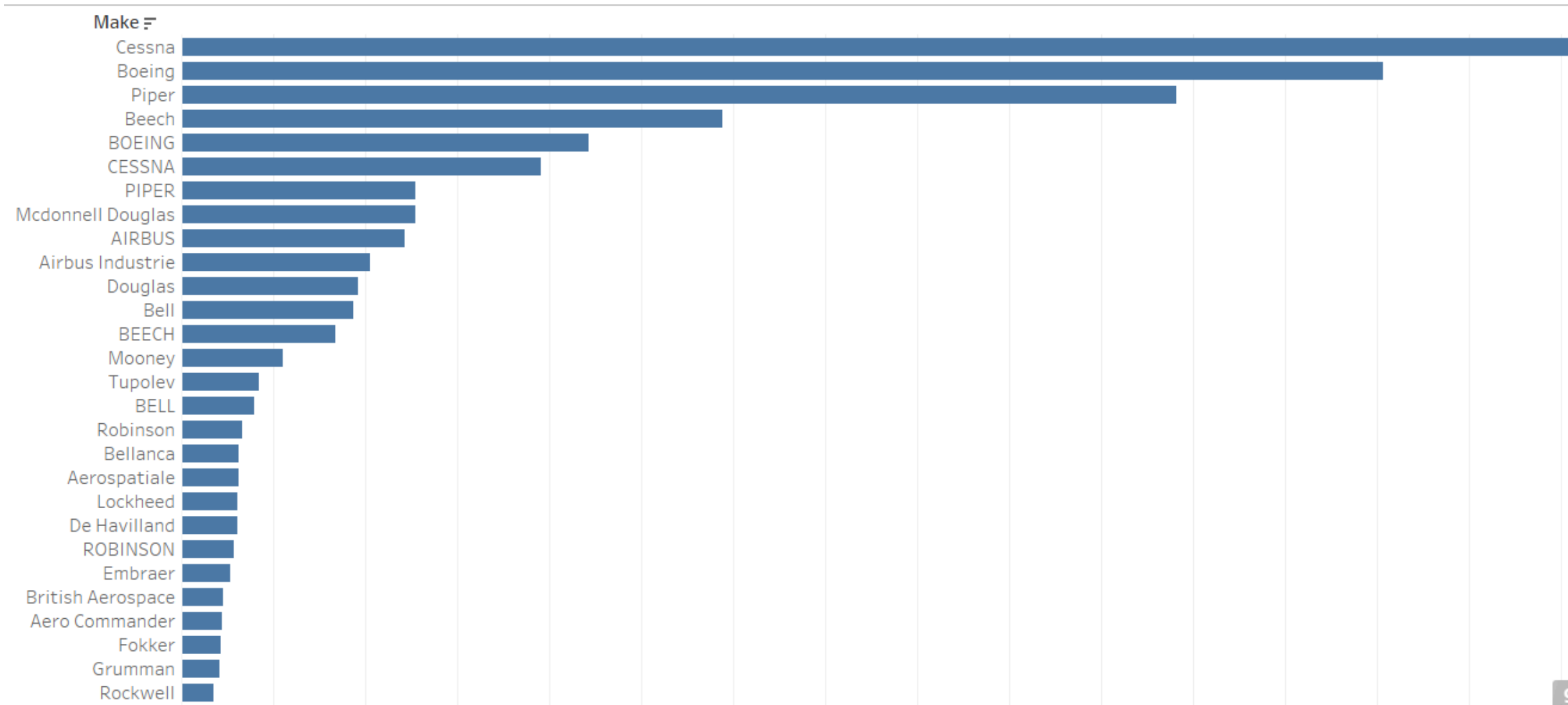- This accidents have happend all over indifferent countriesbut they seem prone in the United States .

- We also looked at the make and the the injury fatality

- The injuries were classed to three;

  - Fatal
  - Serious
  - Minor

1.Image for fatal

Bar Graph representing rate of fatal injury to make

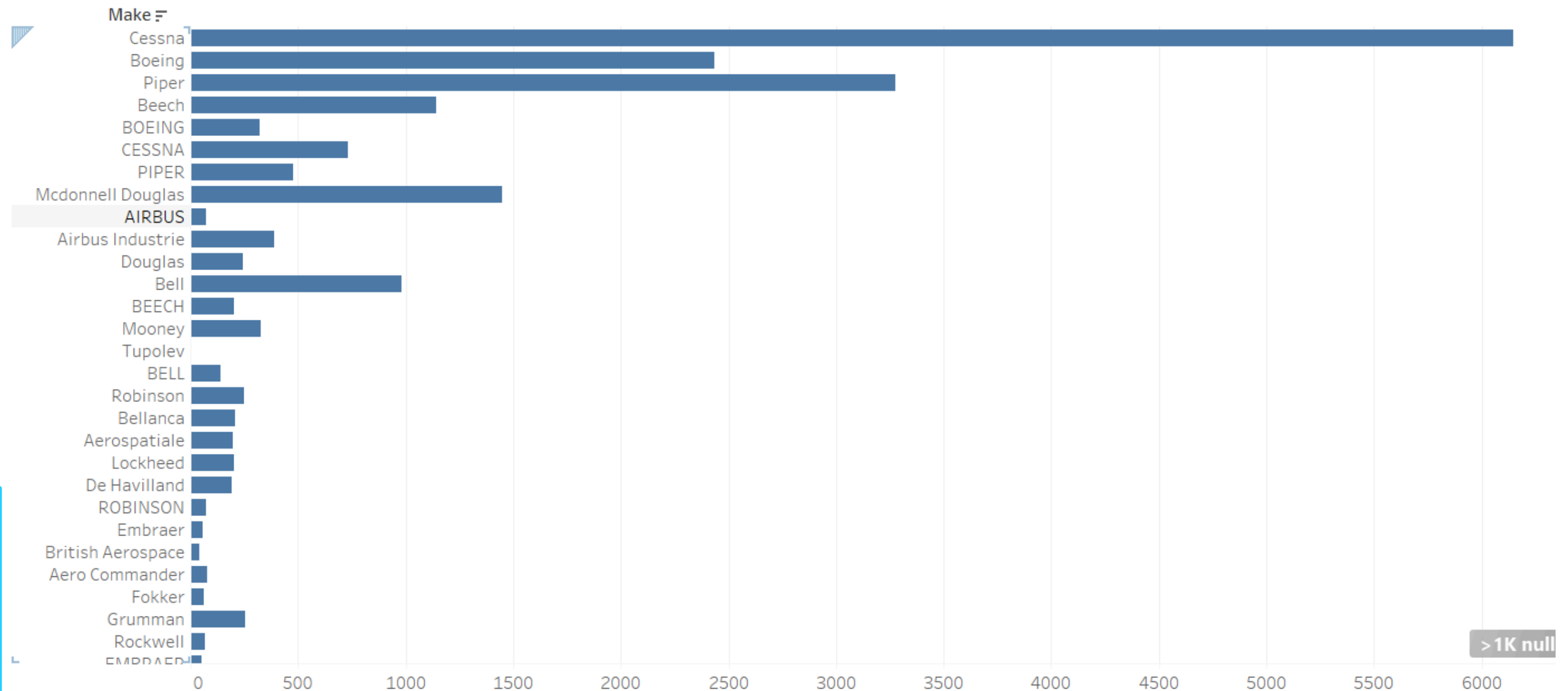- **This is just a representation of a small section of the data ,Cessna seems to have most of the fatal injuries**
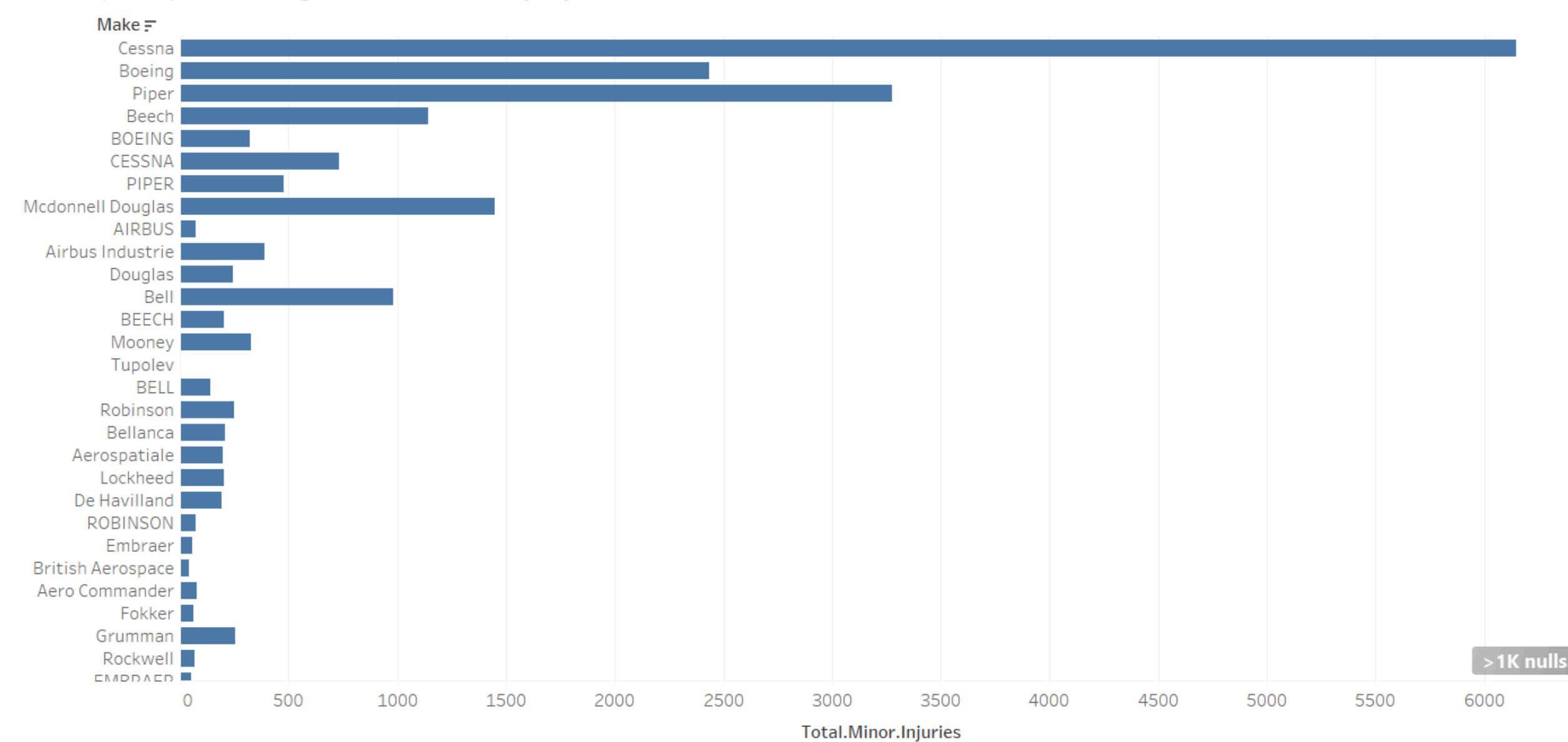
2. Image of serious injury

Bar Graph representing rate of serious injury to make

- **We can see that Cessna is leading with serious injuries**

3.Image of minor injuries
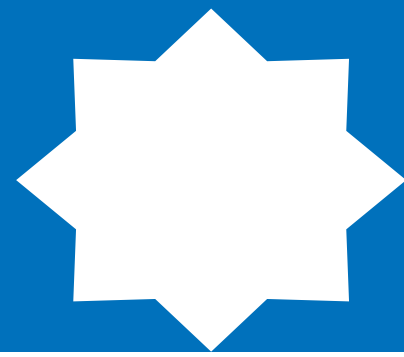

Bar Graph representing rate of minor injury to make

- **We can still see that Cessna is still leading in the number of minor injuries**

- **After the small analysation we were able to acquire we were able to see that Cessna its injury rate is reallly high and we also considered to check how often do different aircraft makes crash**

- **We were able to use so functions using python to obtain this information**

```
#This will help us to be able to know how many times a make has appeared in the data
top_make_counts = top_make_count_series.values.tolist()
top_make = top_make_count_series.index.tolist()

print('Make:',top_make)
print('Counts:',top_make_counts)
```

```
Make: ['Cessna', 'Piper', 'Beech', 'Bellanca', 'Mooney', 'Bell', 'Grumman', 'Boeing', 'Swearingen', 'Luscombe', 'Aero Commander', 'North American', 'Grumman American', 'Hughes', 'Tay
Counts: [664, 348, 159, 32, 31, 26, 26, 22, 15, 14, 10, 10, 9, 9, 9, 9, 8, 8, 8, 8, 8, 7, 7, 7, 7, 6, 5, 5, 5, 5, 4, 4, 4, 3, 3, 3, 3, 3, 3, 3, 3, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
```

- **That is an image showing the method we used to obtain the data**

- **Using the method we were able to know that Cessna is the name that has apperaed most in the accident list**

Method of Analyzation

- After the small realisation we made we decided how we would analyse you data to give you the the aircraft make with the lowest risk
- The list that we obtain contained accidents and inncdent so the more a make appears the more it is prone to accidents and incidents
- We decided to analyse the data by firstly ,obtaining the list of the accidents that lack injuries all in total(minor,serious,fatal)
- We then arranged the data to the times it has appeared in the list and used the ones that have only appeared once
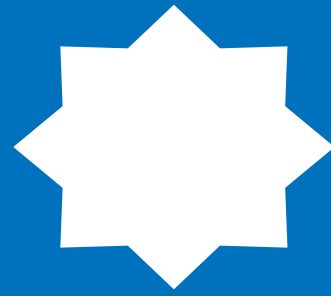
CLOSING

RECOMMENDATION

- From the analysis we would be confident to recommend you the following Aircrafft makes that you should consider as you venture to this new field

- We would also recommend you to visit the industry to see the one that is to your preference of taste

The list we have been able to compile:
- Wootton,John
- Playmate
- Oldfield
- Erco
- Mcodonnell-douglas

INTERACTIVE SESSION

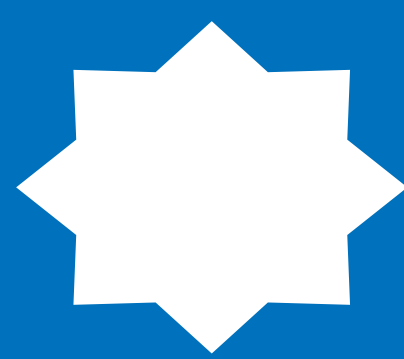1. Why you feel that i have missed out or have a question you can freely ask ?

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_____

Thank you

- **We would like to thank you for giving us this opportunity to work for you and choosing Analytco company for this project**

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