PROJECT: PHASE 1

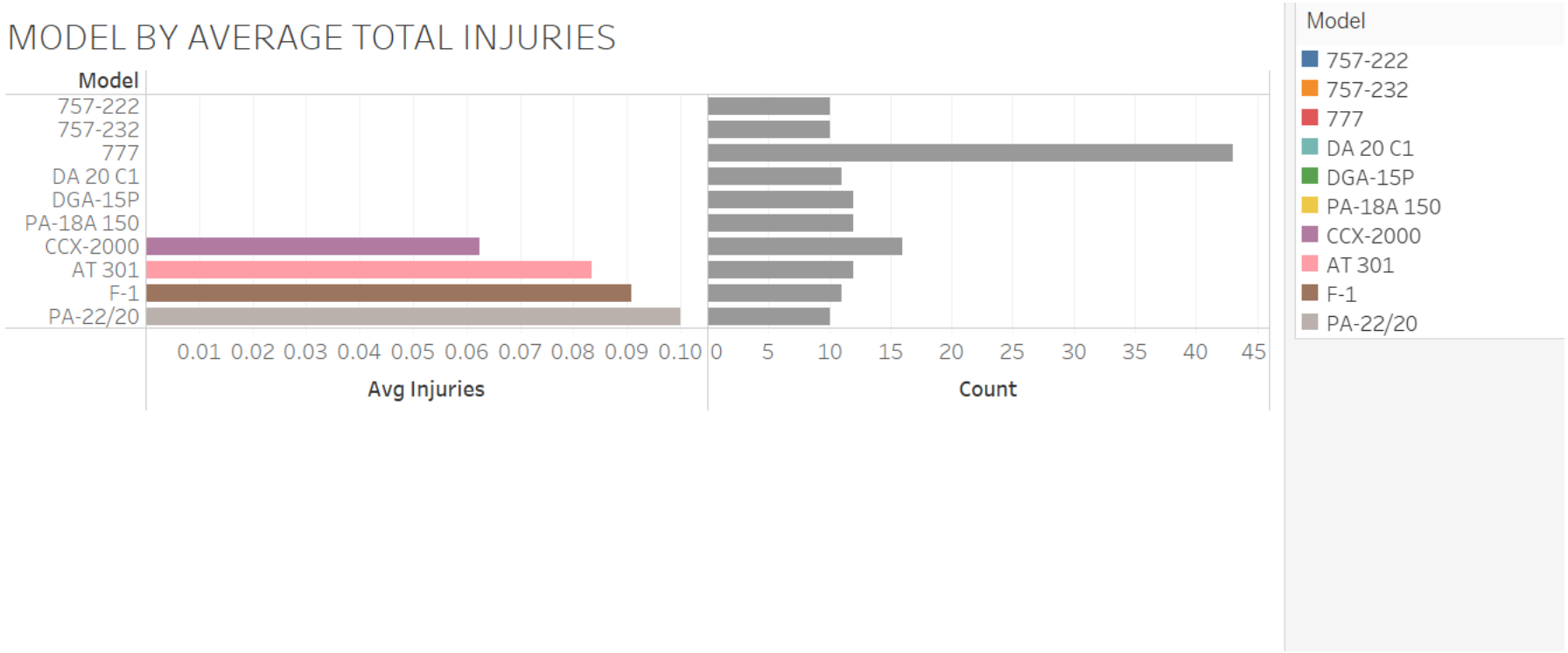
1. Objective

To help our aviation company make informed purchasing decisions by identifying the safest aircraft models and those with the highest injury risks.

2. Key Questions Answered

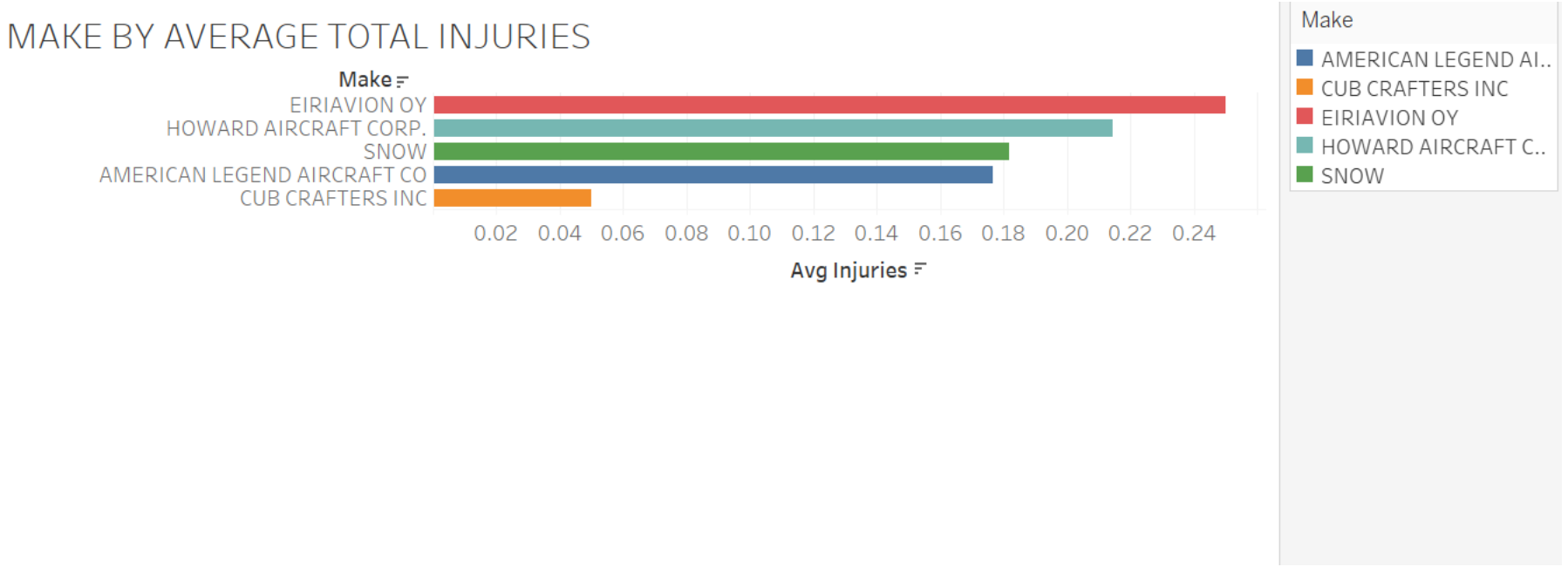
- ❑ What are the safest aircraft models based on average injuries?
- ❑ Which aircraft have caused the most total injuries?
- ❑ Are there aircraft with many incidents but low risk per incident?
- ❑ What models and makes should we prioritize or avoid?

THE BOTTOM 10 MODELS BASED ON AVERAGE INJURIES



- The safest model is the Boeing 777 and it is followed by the Howard DGA-15P and Piper PA-18A 150 models.
- Models like Boeing 757-222 and 757-232 are also strong candidates for safe aircraft investments.
- Even with multiple reported events, these aircraft maintain low injury severity.

THE SAFEST MAKES ACCORDING TO AVERAGE TOTAL INJURIES



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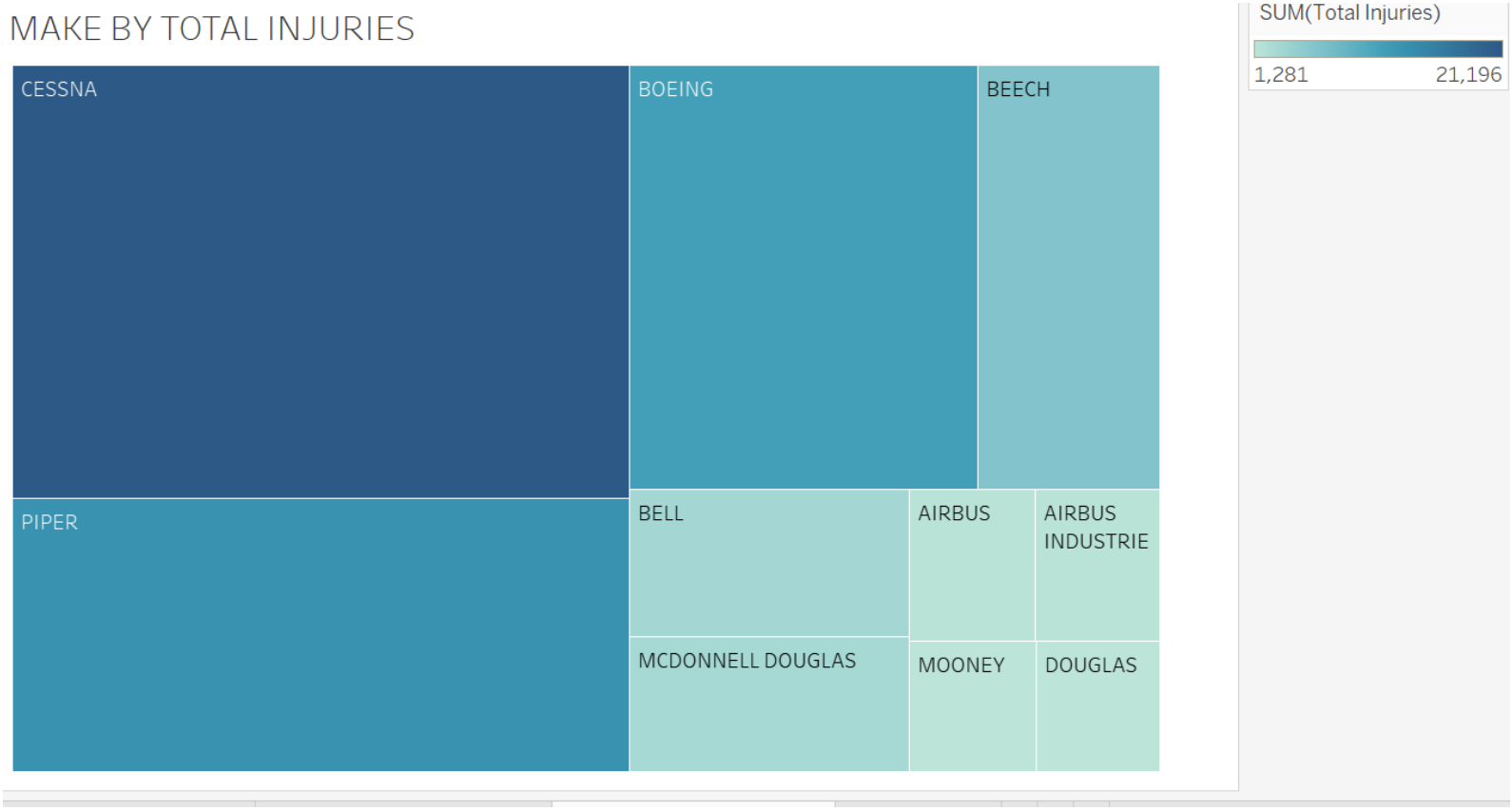
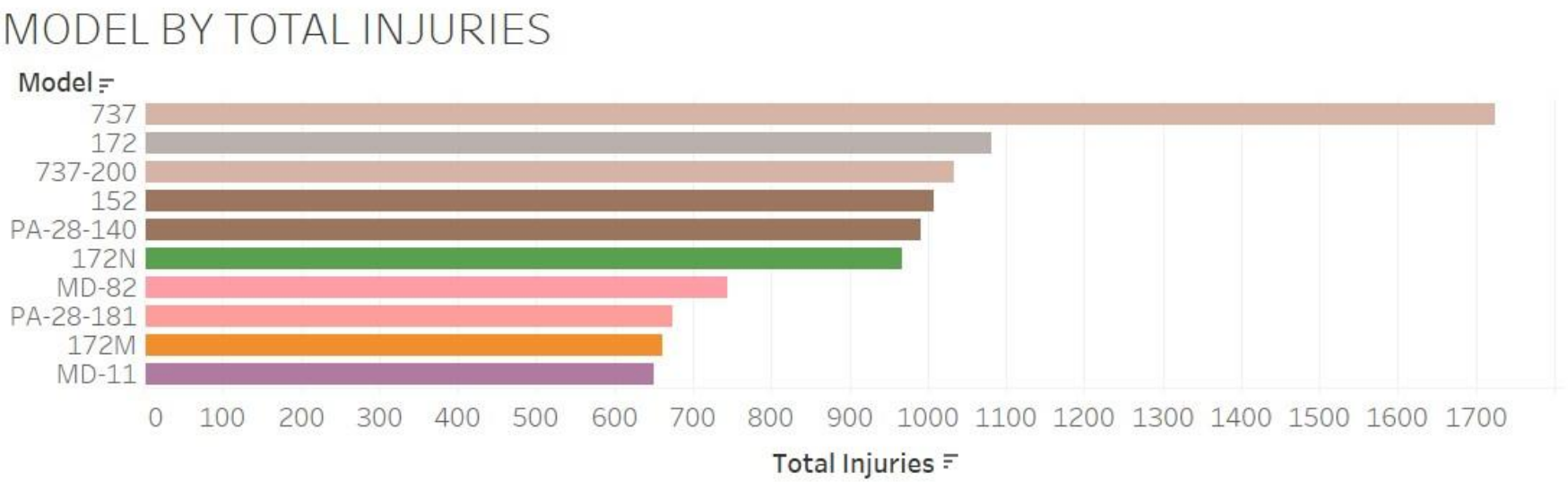
THE RISKIEST MAKES IN TERMS OF TOTAL INJURIES



CESSNA, PIPER and BOEING stand out as the makes involved in the most accidents/incidents.

CESSNA mainly is the make to avoid as the rest have safer models as well.

THE RISKIEST MODELS IN TERMS OF TOTAL INJURIES



- Models like 737, 172, and 737-200 have the highest total injuries.
- These models are best to be avoided even though popularity may have played a part in the statistic.

Recommendations

- Shortlist low-risk aircraft: Boeing 777, Howard DGA-15P, Piper PA-18A 150.
- CESSNA is the aircraft make to avoid due to its aircrafts' huge involvement in accidents/incidents.
- For a more informed decision this data should be combined with maintenance and operational feedback.