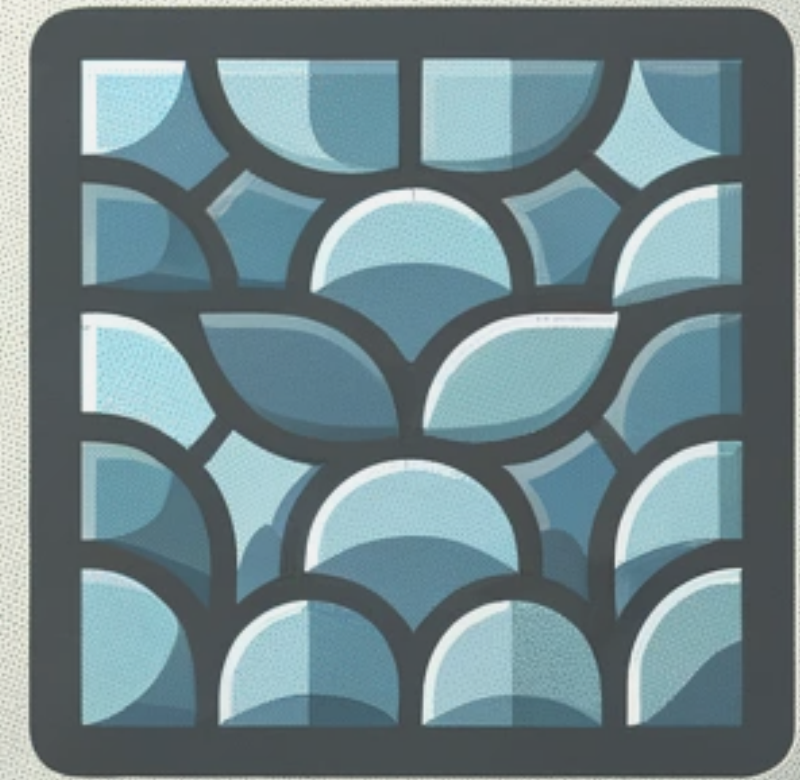




Wings and Flats:

Aviation Analytics & Risk Management

Yiyi, JD, and Nathan



FLAT
COMPANY

Agenda

- **Business Problem**
- **Data**
- **Methods**
- **Results**

Business Problem

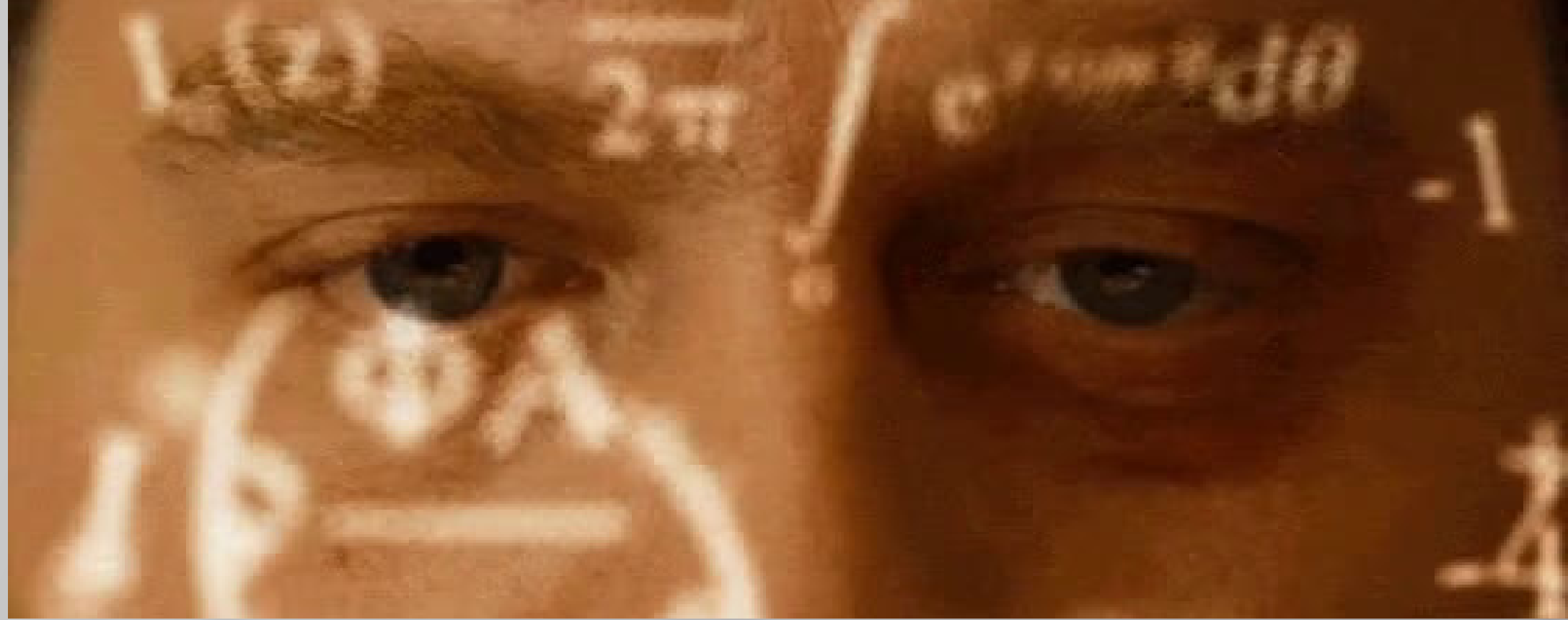
- Which **aircraft** is the best for **international travel**?
- What is our pick for **regional jet**?
- What seasons should we avoid **certain cities** for domestic travel?

Data

- NTSB dataset on Crashes
- Missing values
- Poor naming conventions
- External data: Geodata and Plane Sales



Methods



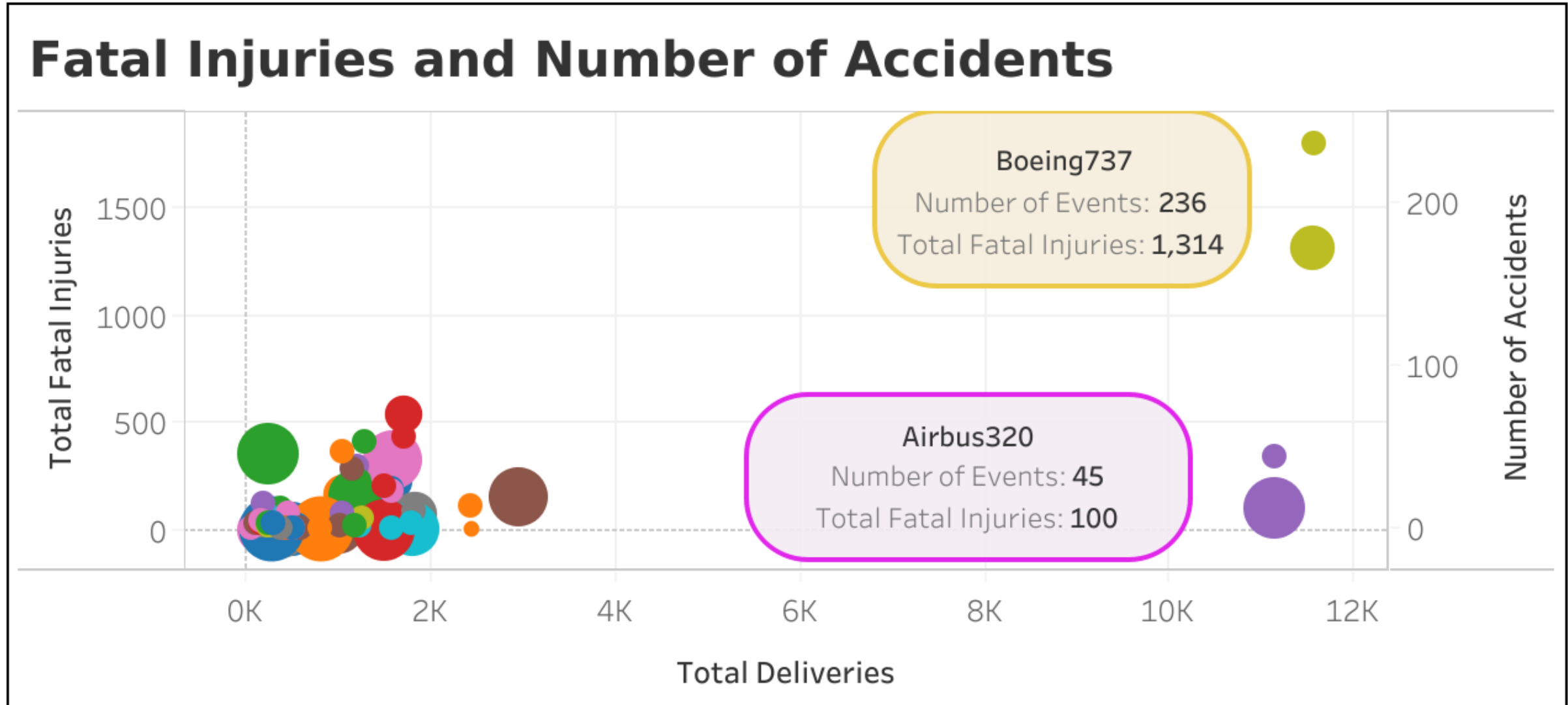
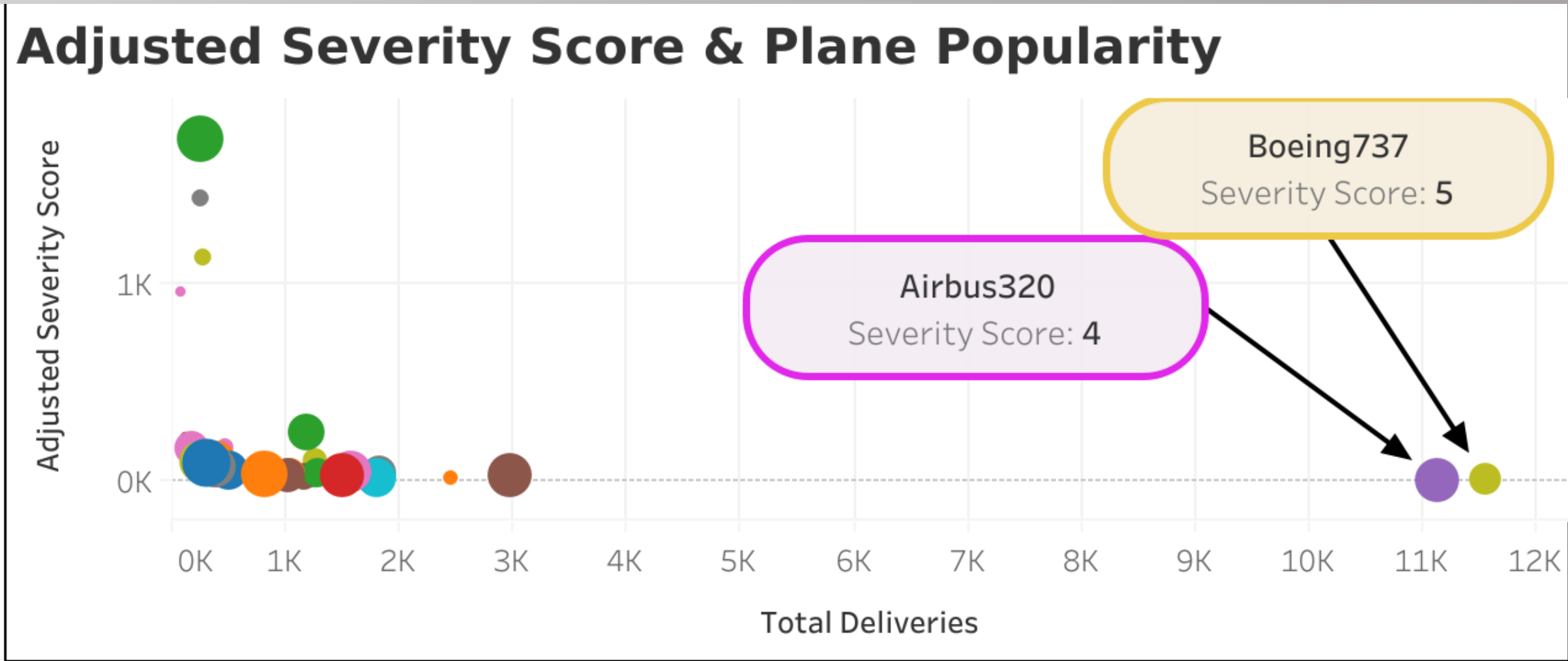
Formulas:

Severity Score

&

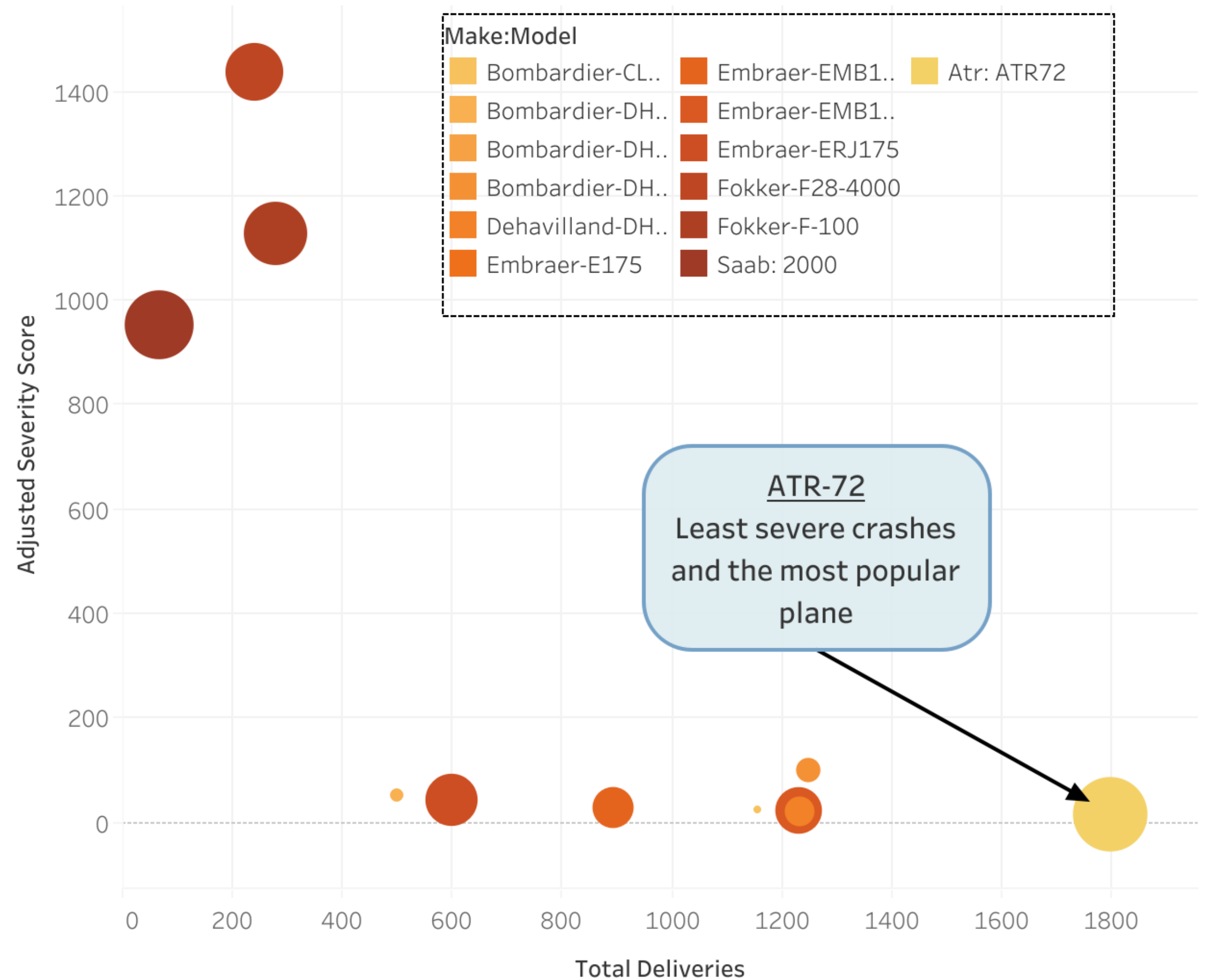
Adjusted Severity Score

Least Risky Plane Overall

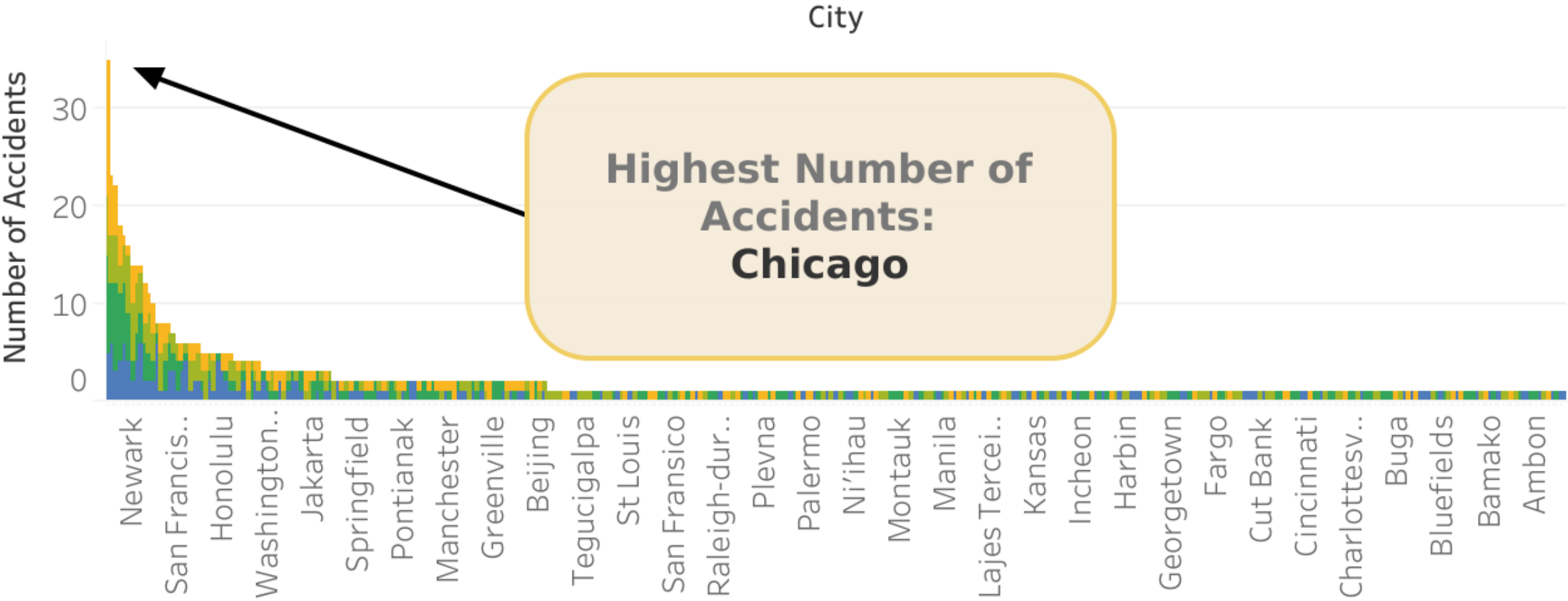
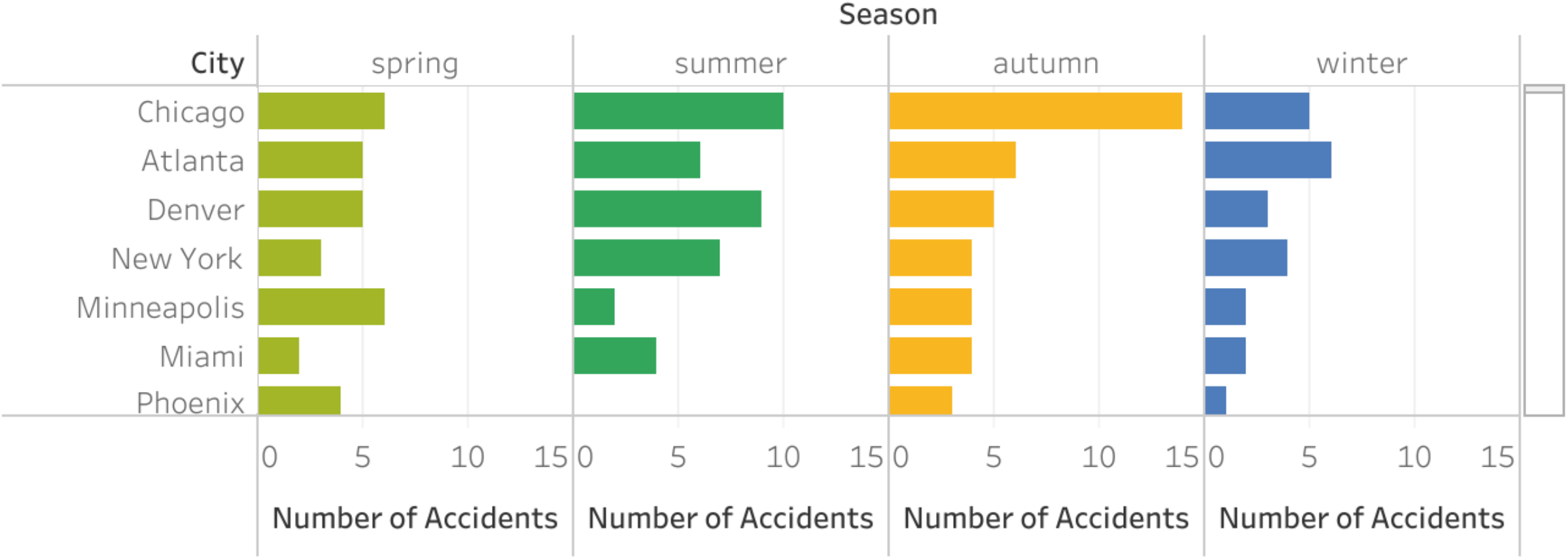


Targeting Domestic / Regional Markets

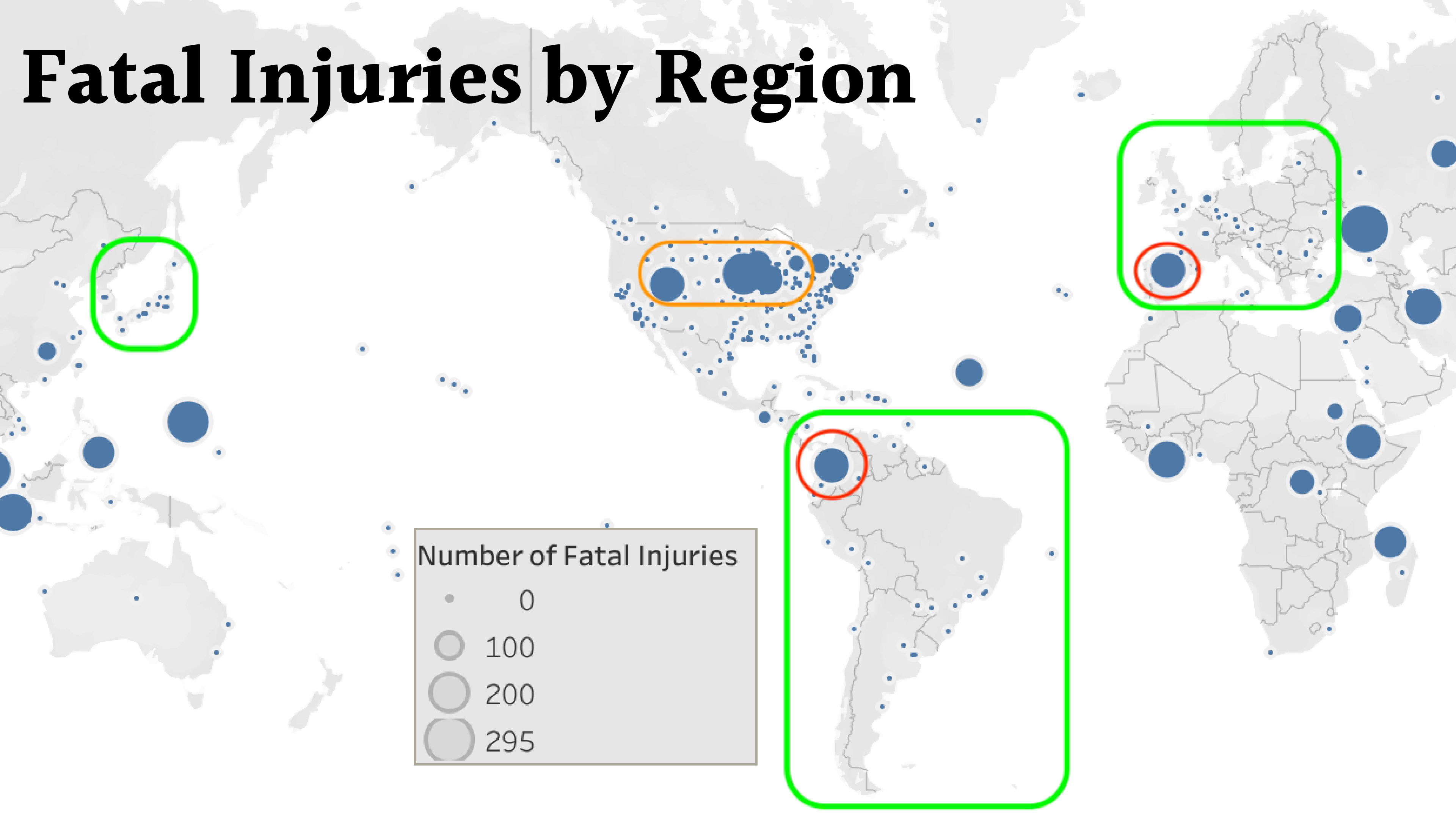
Crash Severity & Plane Popularity (Regional Jets)



The Deadliest City



Fatal Injuries by Region



Recommendations

We can limit this risk by:

- Buying the **Airbus 320** for International Travel
- Buying **ATR 72** plane for Regional travel
- Avoiding **danger zones** as much as possible

Thank you!

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