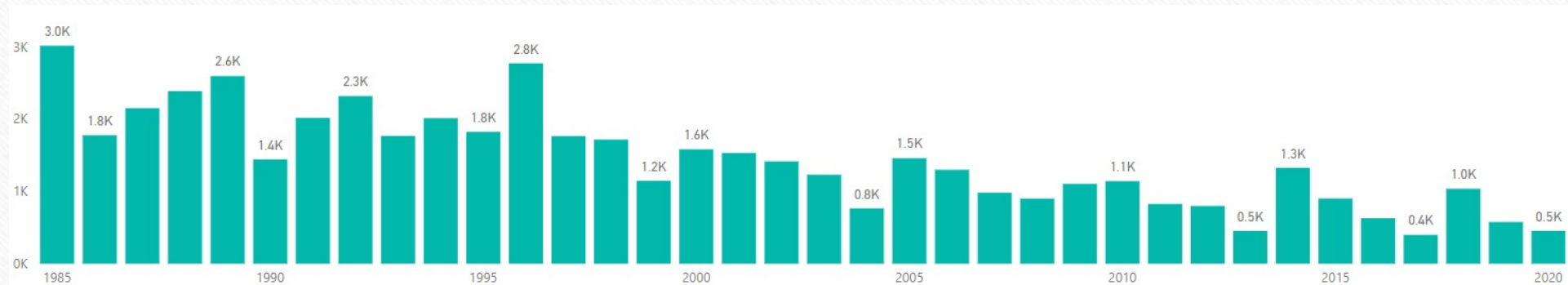


IS AIR TRAVEL SAFE?

- Chandu Yalamanchili

Airline Fatalities Trend

Due to the improved safety measures, technical advancements in air travel, the fatalities has reduced by a great number when compared to historic fatality numbers considering the usage of flight travel has gone up significantly.

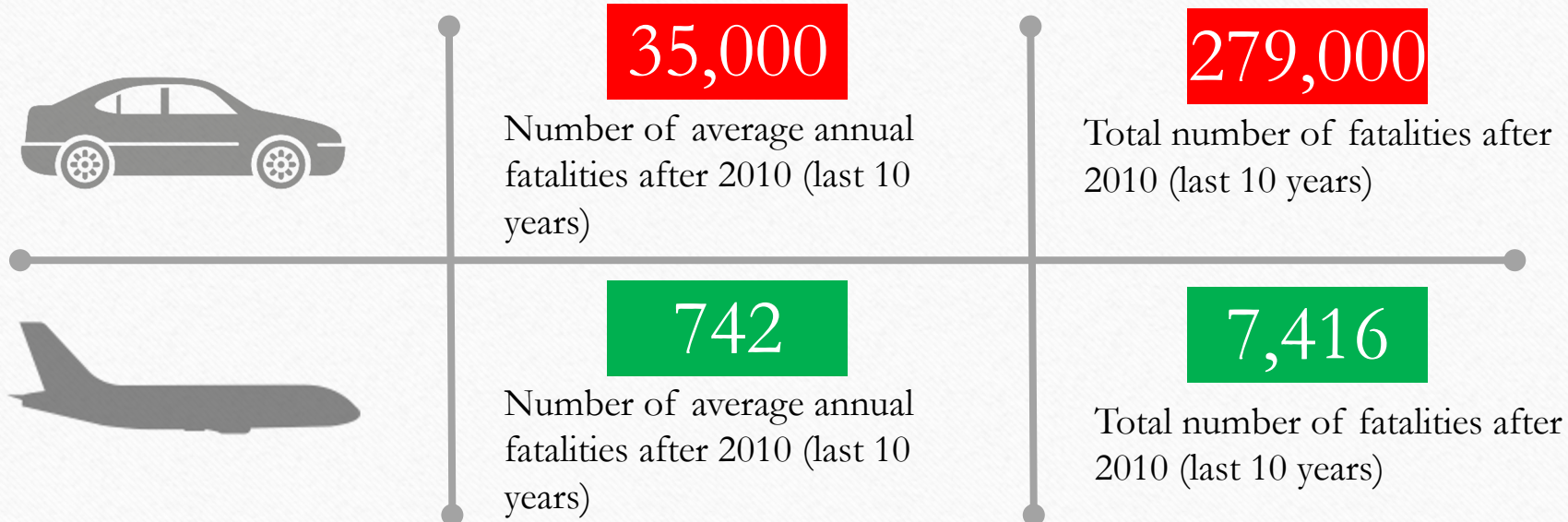


Comparison - Other means of Travel

There are quite a few other means of transport available and below is the comparison of airline fatalities when compared with auto fatalities, the most used mode of transportation.

Auto fatalities are the data captured only from USA.

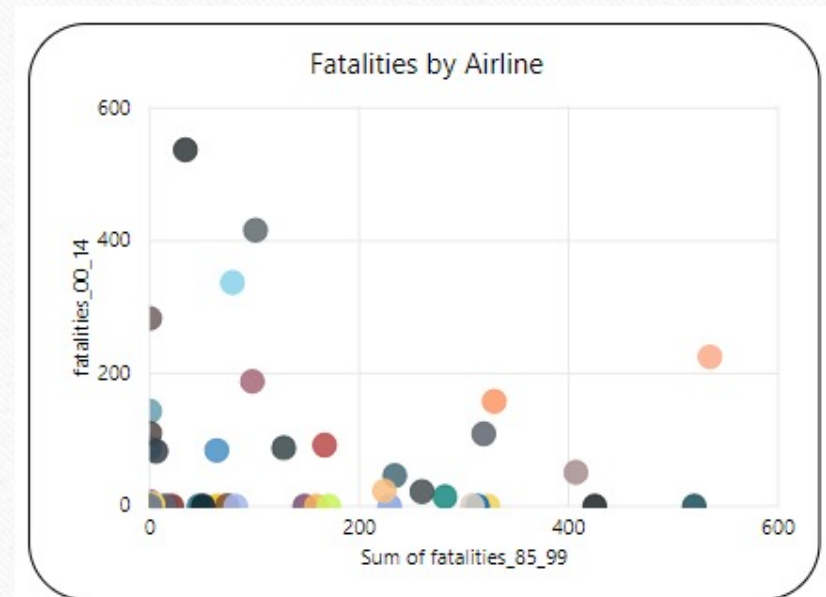
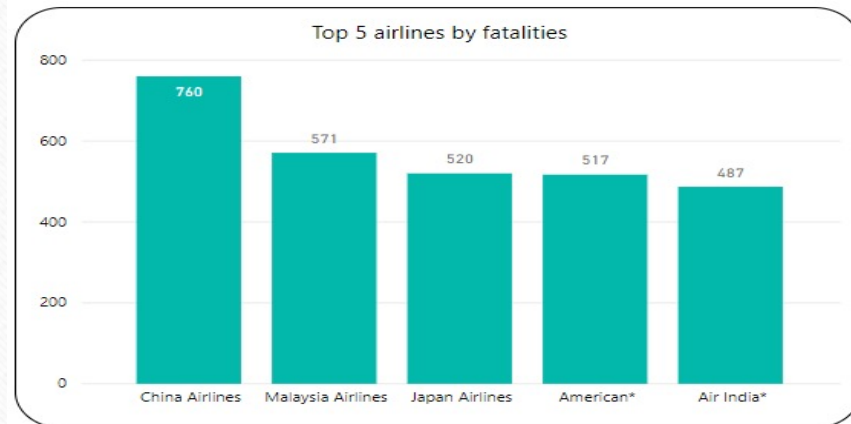
Airline fatalities are captured from across the world.



Airline Performance - Fatalities

Fatalities doesn't seem to be consistent before 2000 and after 2000. While some airlines continue to have fatalities in both time windows, we noticed some airlines are present in only of the time window and had no fatalities in another time window.

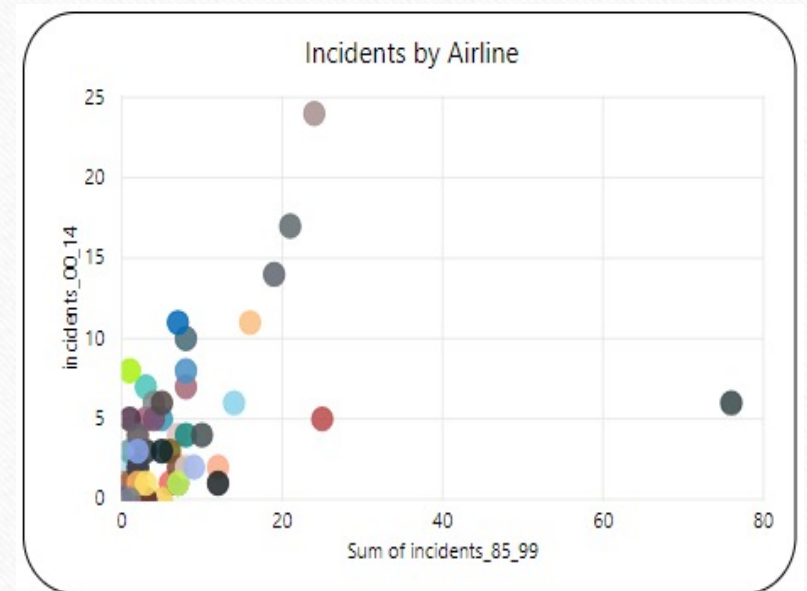
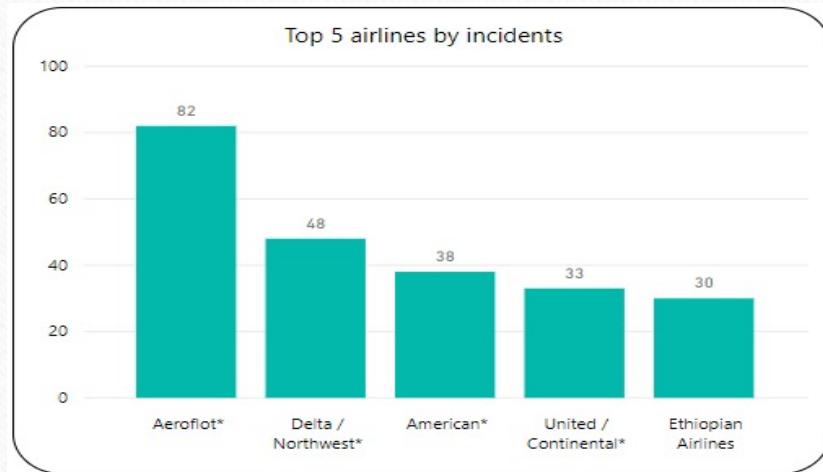
Below are top 5 airlines with maximum number of fatalities from 1985-2014.



Airline Performance - Incidents

While the fatalities varied between two time ranges, we noticed a correlation in terms of incidents between the two time frames. Based on the trend, the airlines that had incidents before 2000 continued to have incidents after 2000 as well.

Below are top 5 airlines with maximum number of incidents from 1985-2014.



Conclusion

- Based on the trends, we can clearly see which airlines are performing good and which airlines are consistently having incidents, so there is a chance that using the historic data we can predict future for a particular airline.
- As mentioned in the initial slide, the flight fatalities and incidents are declining over years due to the advancement of technology.
- By comparing the global airline data with the auto fatality data from USA alone, it is evident that travel by airlines is relatively much safer option.
- Even though we won't be predict exactly when an incident will happen for which airline, there is no way for us to stop the incidents or fatalities in future, but based on the data we have evaluate, the air travel is definitely one of the safest model of travel.

Thank You

References:

- airline_fatalities.xlsx - Downloaded from <http://www.baaa-acro.com/statistics/death-rate-per-year>, found from one of the supporting links provided.
- auto_Fatalities.XLS - Downloaded from <https://cdan.nhtsa.gov/SASStoredProcess/guest>, found from one of the supporting links provided.