# **Project Task 2: Executive Dashboard**

In order to combat negative publicity. First, I needed to look into the accident reports where I could compare the accidents happened on the road through automobile vehicle vs. airlines. Then I compared accident happened from 1985-99 duration vs. 2000-14. After then I checked fatalities & incidents happened based on different airlines. Also, I included a bubble chart of top airlines where most fatalities happened. I check for airline industry operating revenue as well. Please find below details on each chart I prepared.

1. **Fatalities, Incidents & Fatal Accidents 1985-99 vs 2000-14:** This chart clearly shows number of fatalities, incidents & fatal accidents, all of them reduced and counts are very less in 2000-14 then 1985-99.
2. **Automobile vs Airline Crashes:** The chart compares the automobile crashes happened against airline crashes and it clearly shows automobile crashes counts are way higher than airlines. Also, we can see number of crashes are reducing year over year in airline industry.
3. **Airline Fatal Incidents: 1985-99 vs. 2000-14:** The chart clearly shows airlines which had incidents in 1985-99, had less incidents in 2000-14. This is evident airlines are having less incidents now.
4. **Airline Operating Revenue & Net. Profit:** This shows revenue and net profit by airline companies it is increasing year over year with some exception years where it reduced. Based on this it seems like more air travelling happening and as a result airline are earning more year over year.
5. **Airlines with Most Fatalities in 2000-14:** It clearly shows many airlines had more fatalities in 2000-14. Malaysia Airlines had maximum fatalities. American\*, Air France, Kenya Airways and China Airlines are among top 5 airlines with most fatalities.
6. **Departed Seats by Year:** For LLC (Southwest, JetBlue, AirTran, Frontier & Virgin America) & Other (Alaska, Hawaiian, Spirit & Allegiant) departed seats increasing year over year. For Networks like American, Continental, Delta, Northwest, United, US Airways, America West from 2000-08 there was decline in departed seats but then it started increasing linearly. Industry gone through many recession periods as well, but it doesn’t seem like this industry was much impacted as it continues to grow still.

From the above analysis I think airline travel is safest as compared to automobile travel. We can also see number of crashes are reducing year over year, so they are doing better in enforcing good safety measures. Above analysis is evident of this conclusion.

Supporting Data sources:

* <http://web.mit.edu/airlinedata/www/Traffic&Capacity.html>
* <https://github.com/fivethirtyeight/data/tree/master/airline-safety>
* <https://www-fars.nhtsa.dot.gov/Trends/TrendsGeneral.aspx>
* <http://www.baaa-acro.com/statistics>
* <https://github.com/fivethirtyeight/data/tree/master/airline-safety>
* <https://github.com/sutharshani/DSC640/tree/master/Week_5_6>