

# DSC640\_3-3\_ExecutiveSummary

## AIR TRAVEL & SAFETY

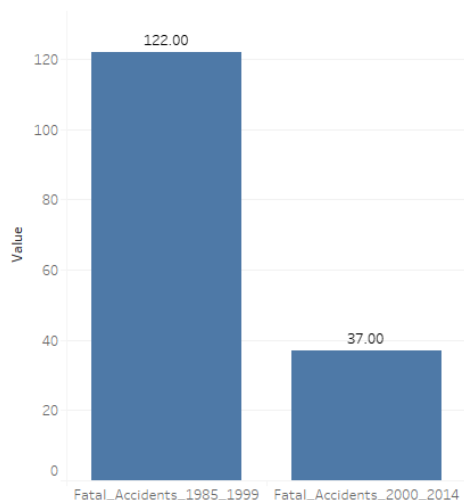
As an important means of transportation, air travel plays a major role in the international and domestic travel. Where it could take for days and months on the road and in ships, we can reach the destination in hours, and also making the travel possible to unexplored and not reachable territories through land.

On the discussion point of 'Air Travel and safety', recently there are many restrictions imposed by every country because of COVID 19. Even before Corona virus situation, a small incident would cause a lot of media speculations on the reason of the incident. We do see some real incidents happen, recently in 2021 Jan 'The Sriwijaya Air plane 182 - a Boeing 737 - Indonesia ' has crashed and raises technical and security safety Issues.

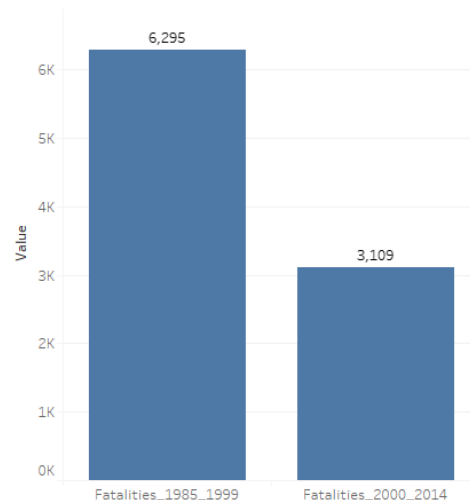
Before making any allegations on the overall safety of the airline travel, we need to look at the stats to see how the air travel has increased in volume in terms of number of flights, Air Lines and passengers. This increase in volume gives the confidence of Airline industry for further growth in different places and locations.

Given are the stats of how the number of incidents and fatalities has decreased in the recent times compared to last century, shows us the increase of safety measures implemented over the period of time. When compared to the Road Traffic accidents with air travel the percentage is very less. The increase of the net profit of the airline industry over the period of time, shows the confidence in the people to choose to air travel.

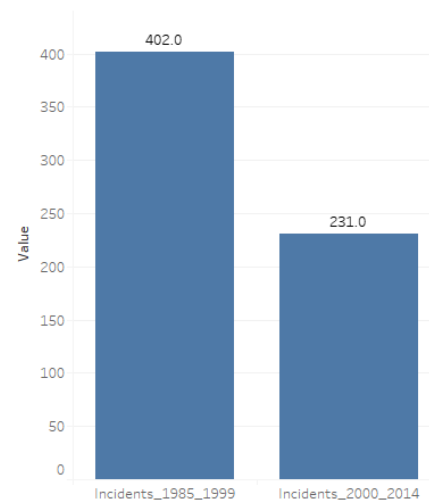
AIR Lines Fatal Accidents  
between 1985-1999 and 2000-2014



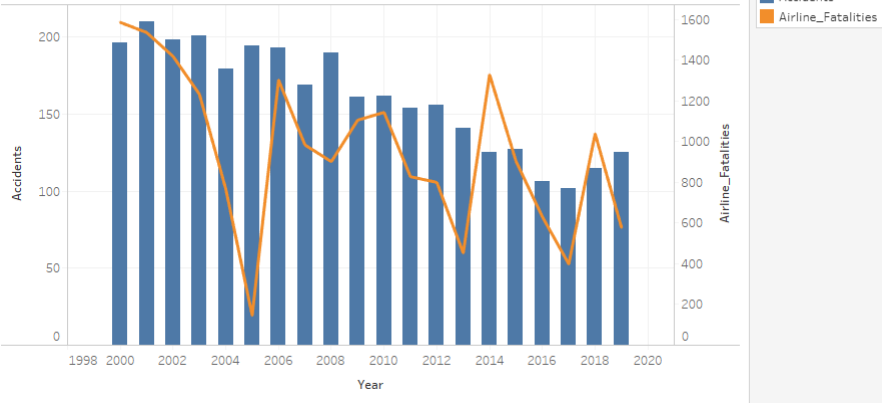
AIR Lines Fatalities  
between 1985-1999 and 2000-2014



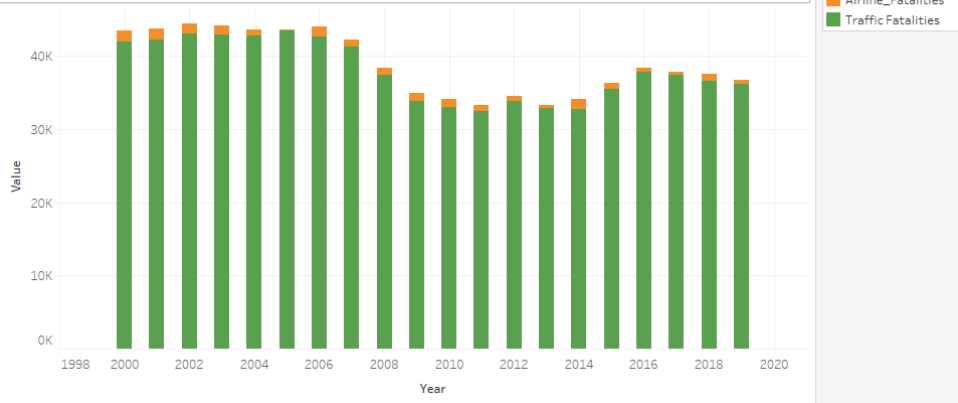
AIR Lines Incidents  
between 1985-1999 and 2000-2014



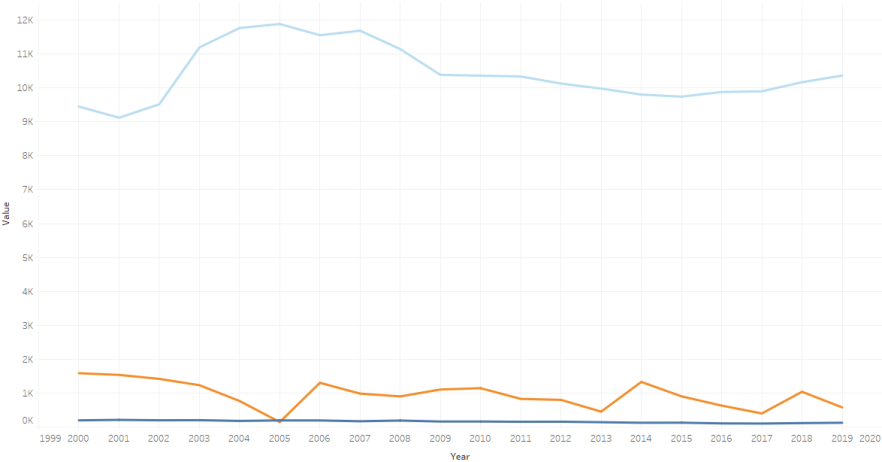
AIR Line Accidents and Fatalities by Year



Traffic Fatalities & Airline Fatalities by Year



Airline Occupancy vs Accidents vs Fatalities



The trends of Accidents, Airline Fatalities and Approx Departures for Year. Color shows details about Accidents, Airline Fatalities and Approx Departures.

Measure Names  
■ Accidents  
■ Airline Fatalities  
■ Approx Departures

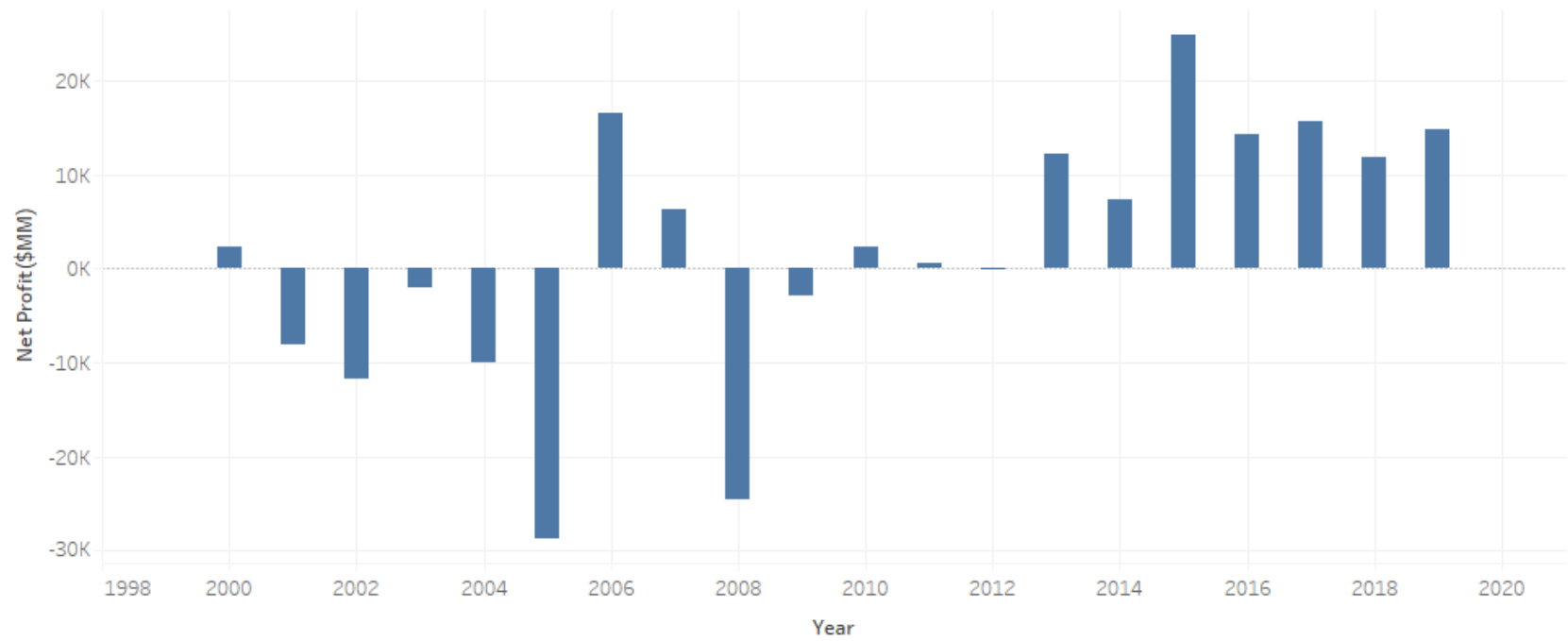
Traffic vs Airline - Accidents vs Fatalities



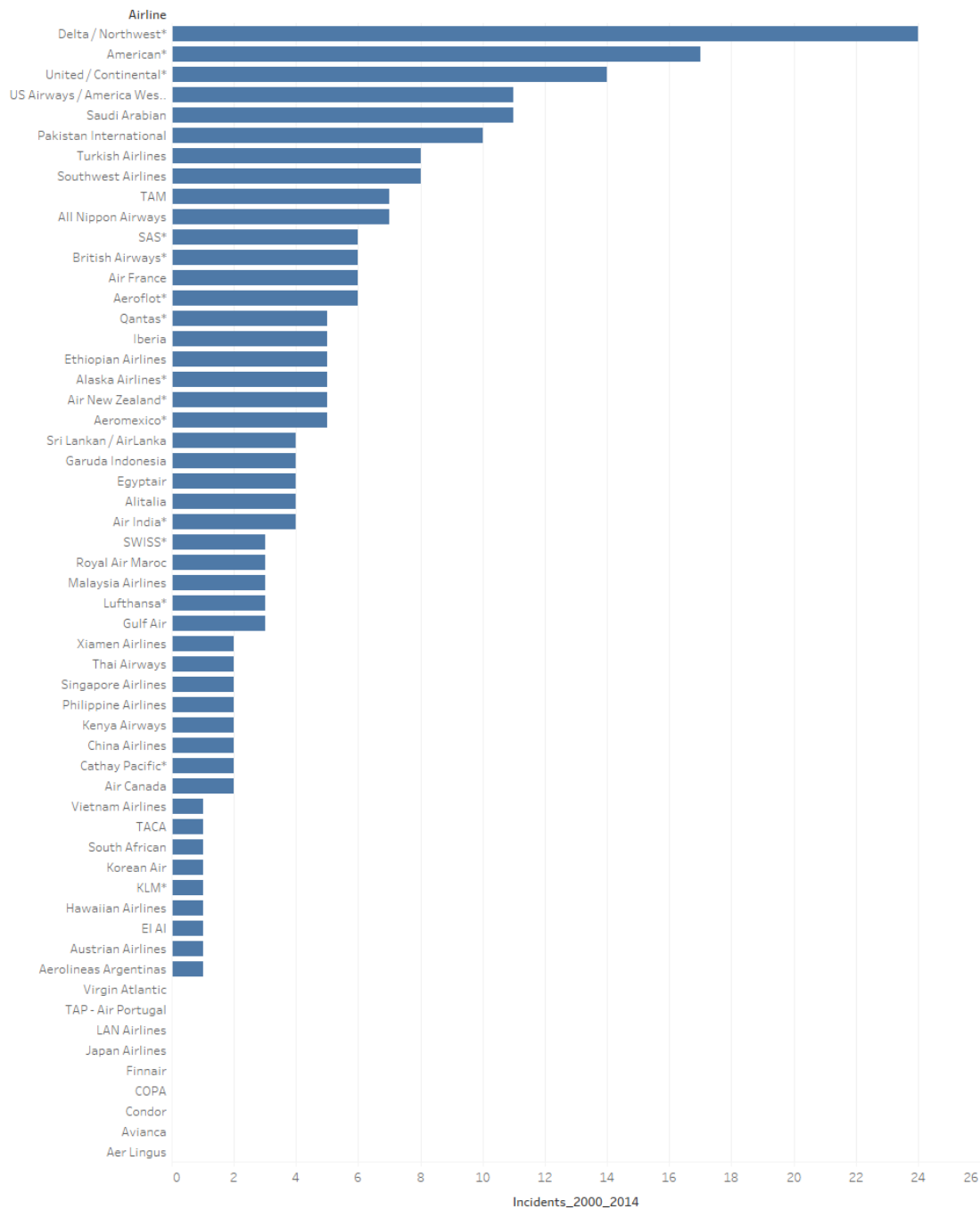
The plots of Accidents, Airline Fatalities, Fatalities and Traffic Fatalities for Year. Color shows details about Accidents, Airline Fatalities, Fatalities and Traffic Fatalities.

Measure Names  
■ Accidents  
■ Airline Fatalities  
■ Fatalities  
■ Traffic Fatalities

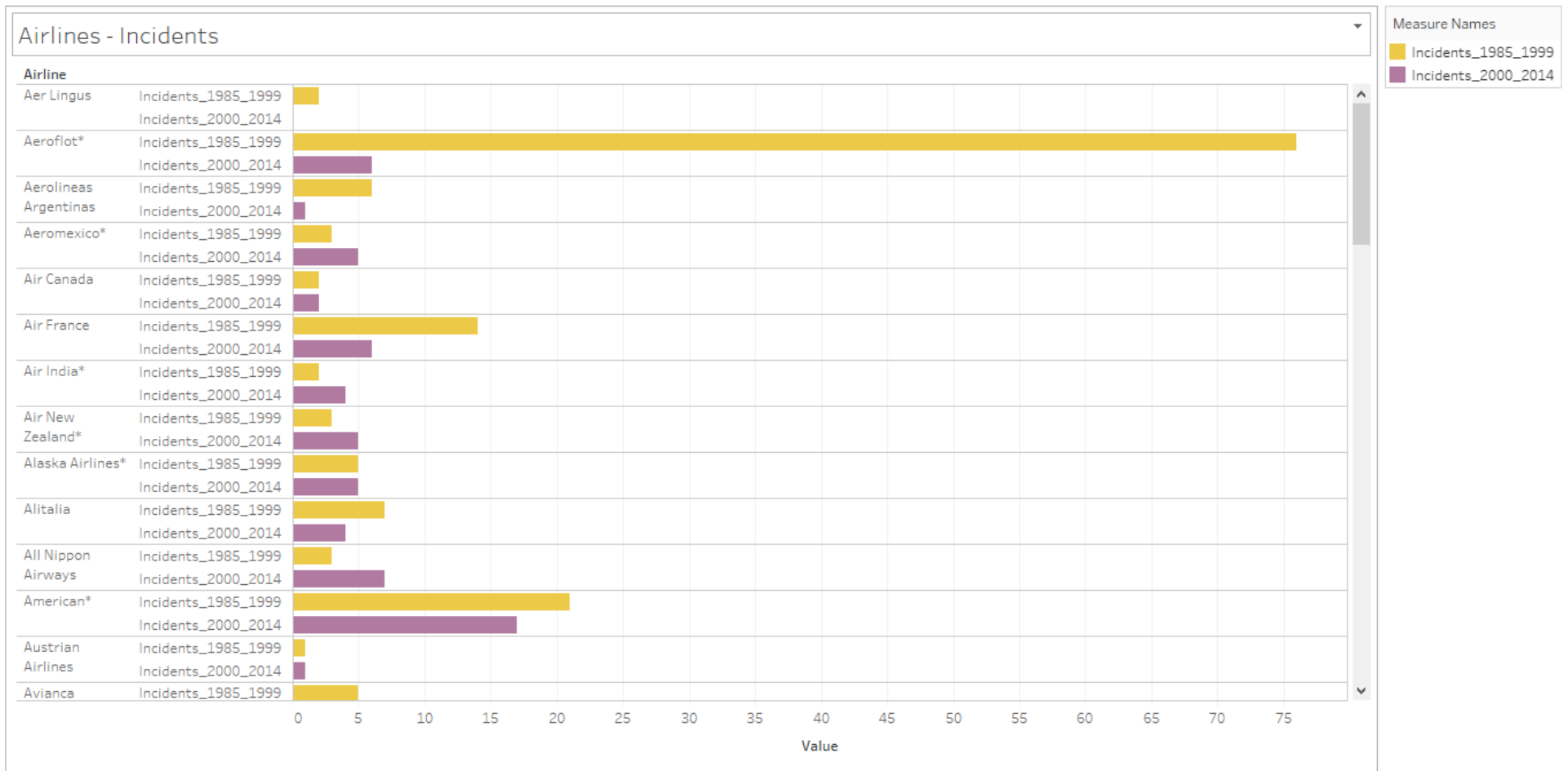
Airline Net Profit by Year



## Airlines - Incidents



Incidents\_2000\_2014 for each Airline.



### Reference:

Airline Safety: <https://github.com/fivethirtyeight/data/tree/master/airline-safety>

Traffic Fatalities: [https://en.wikipedia.org/wiki/Motor\\_vehicle\\_fatality\\_rate\\_in\\_U.S.\\_by\\_year](https://en.wikipedia.org/wiki/Motor_vehicle_fatality_rate_in_U.S._by_year)

Net Profit: <https://www.airlines.org/dataset/annual-results-u-s-passenger-airlines/#>

Airline Accidents: [List of accidents and incidents involving commercial aircraft - Wikipedia](#)

Github repo: [bgaggainpali/DSC640\\_Data\\_Presentation\\_And\\_Visualization\(github.com\)](#)