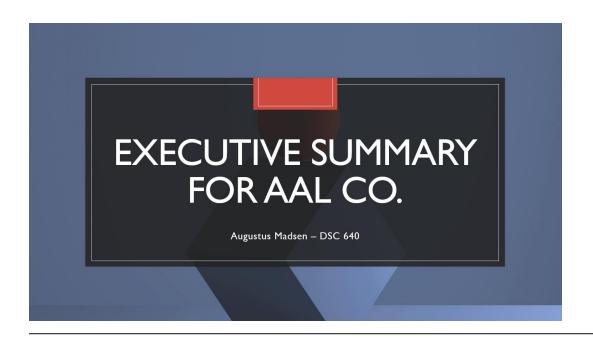
### A-Airline Executive Summary



#### Initial 'A' Airline Numbers Airline V AvailSeat V Inc-85/99 V FA-85/99 V Fatal-85/99 V Inc-00/14 V FA-00/14 V Fatal-00/14 V Aer Lingus 320906734 Aeroflot\* Aerolineas Arg 385803648 Aeromexico\* 596871813 Air France Air India\* Air New Zealar 710174817 Alaska Airlines 965346773 Alitalia

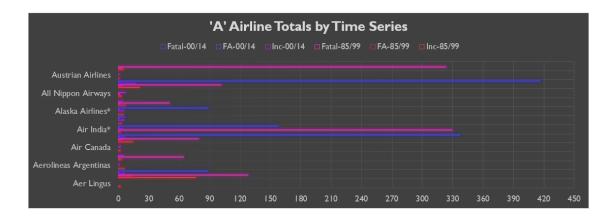
All Nippon Air 1841234177

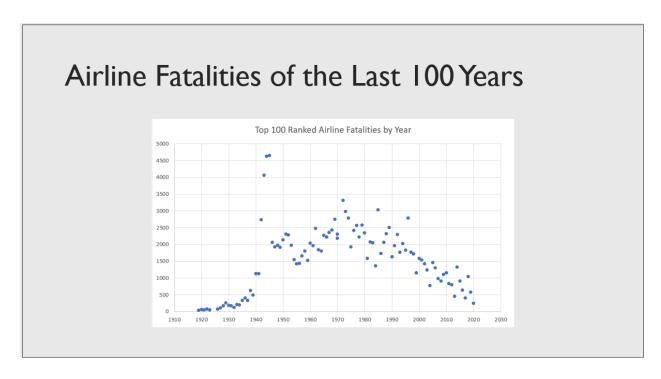
Austrian Airlin 358239823

Avianca 396922563

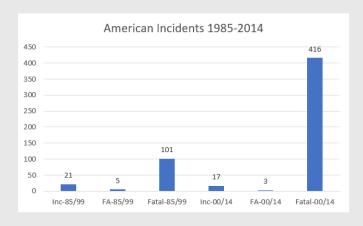
American\*

## Graphed 'A' Airline Year Totals

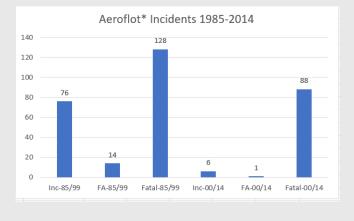


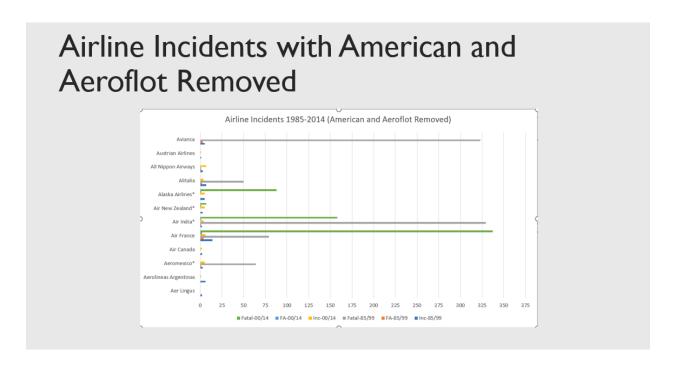


# American Airlines Incidents/Fatalities 1985 to 2014



# Aeroflot Airline Incidents/Fatalities 1985 to 2014





This executive summary analyzed the incidents and fatalities of AAL Airlines from 1985 to 2014. The visualizations were chosen to identify any outliers in the airlines, and conduct further analyses as needed to determine an approach for addressing the situation. The first graphic shows the initial totals for incidents, fatal accidents, and fatalities for the airlines for 1985-1999, and then again from 2000-2014. The next graphic displays the totals in a bar chart time series, to be able to visualize any outliers in the data. From this, we can see that Aeroflot and American Airlines had the highest number of incidents between 85-99, including fatalities and fatal accidents. The trend appears to be correlated to kilometers per seat, resulting in more hours in the air, which these airlines also led all other airlines during this time frame. When breaking down these two airlines in the next graphs, both had a large amount of overall fatalities in recent years (2000-2014). If we look at the historical data for the last 100 years, we can see that there is a downward trend in airline fatalities after reaching a peak in the 1970's (excluding the 1940's outliers). These numbers indicate that AAL has been successful in protecting its passengers and

initiating safety measures with updated technology, but the incidents the most recent timeframe have resulted in a large amount of fatalities. Based on these findings, the recommendation for analyses should be centered on the *type* of incidents, and not necessarily the overall numbers. Prevention can only be done to an extent with the safety of passengers, but if mechanical devices are not up to par in the first place, this should be addressed appropriately. Conducting analysis on the types of incidents will support the findings on incidents and fatal accidents, while giving more information to investigate how AAL Airlines can continue to promote safety by exploring all instances associated with airline crashes and deaths.

#### Sources

https://github.com/fivethirtyeight/data/blob/master/airline-safety/airline-safety.csv#L1 http://www.baaa-acro.com/statistics/death-rate-per-year