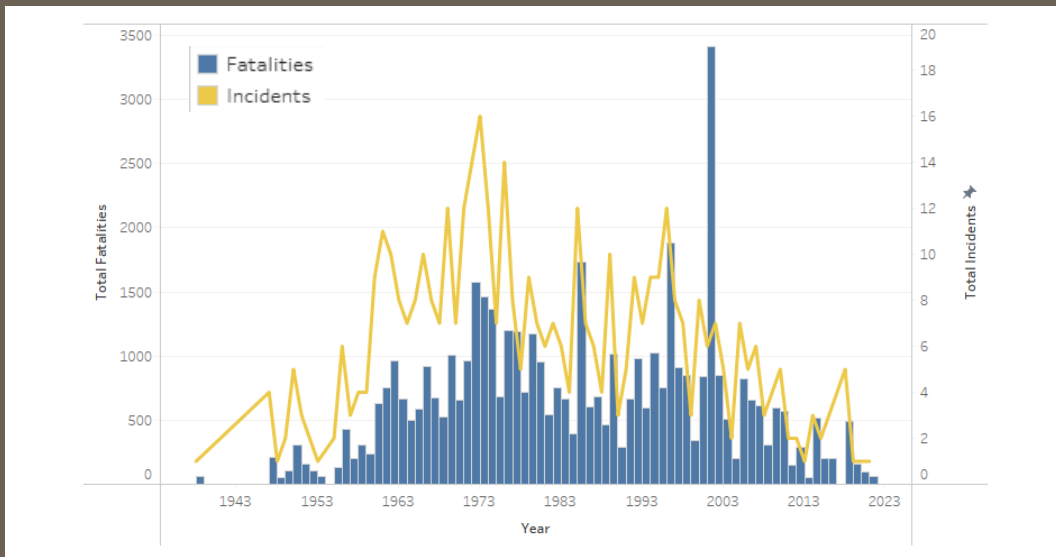


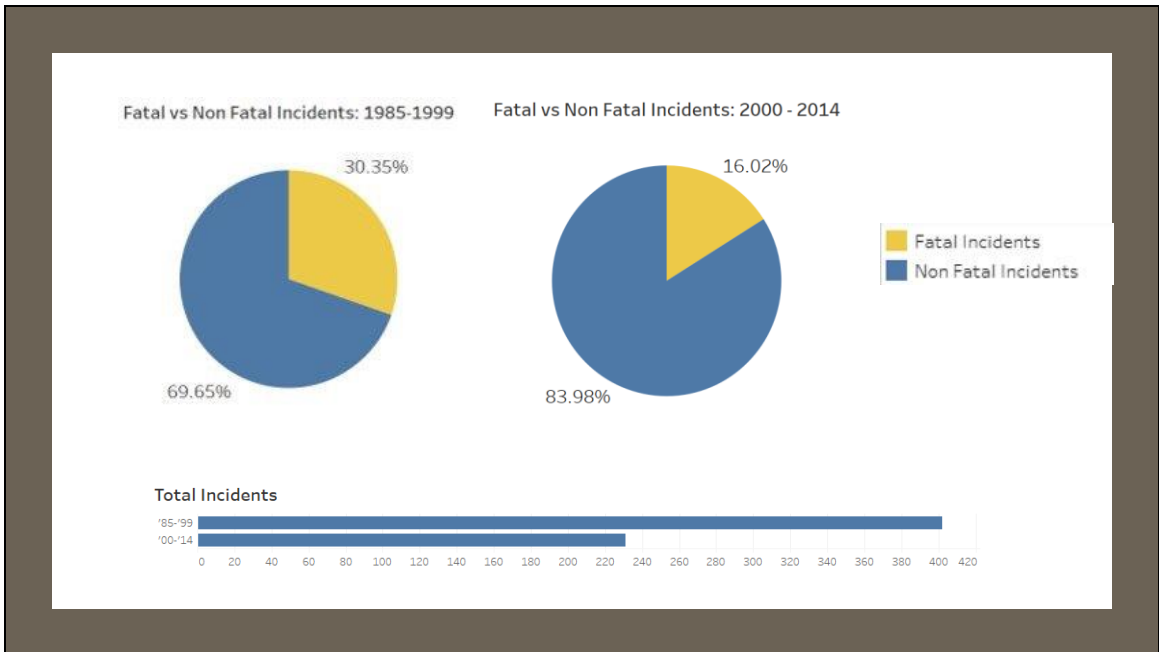
A photograph of an airplane cabin interior, showing rows of seats and windows. The image is dimly lit, with the text overlaid in white.

Airline Safety Analysis

Executive Summary by Kimberly Summerville

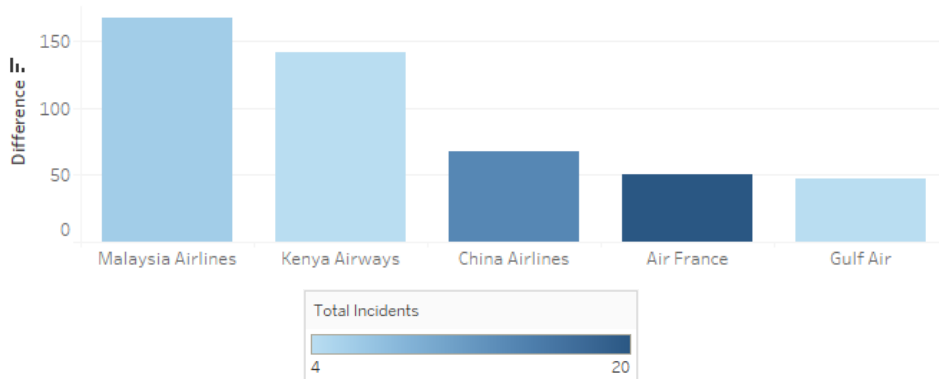


- The main objective for a commercial airline is to safely transport passengers from one place to another. Recent media and the unknowns of air travel make the idea of flying vs other transport less than desirable for many people, out of fear of accidents.
- Truth is, the number of Incidents with 50+ fatalities rose significantly in the 1960s with a peak in 1973. However, due to the Airline Deregulation Act in 1978, the number of incidents have trended downward since, with just 1 for two years in a row in 2019 and 2020.
- The number of fatalities per year also tracks with the trend of Incidents, with just one noticeable outlier in 2001 due to the 9-11 attacks.



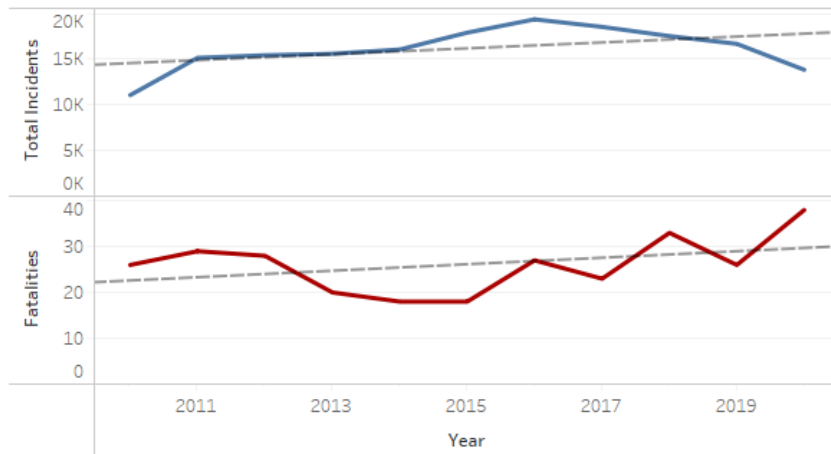
- The percentage of incidents with any fatalities has gone down significantly from 30.35% in 1985-1999 to 16.02% in 2000-2014.
- This, combined with a lower number of incidents overall (402 vs 231) points to air travel being safer than ever.

How the Number of Fatalities per Incident Has Changed: 1985-1999 vs 2000-2014



- Looking at the 5 airlines with the highest differential in Fatalities per Incident between the periods of 1985-1999 and 2000-2014, all airlines are international, further indicating that not only air travel is getting safer, but US airlines are some of the safest around.

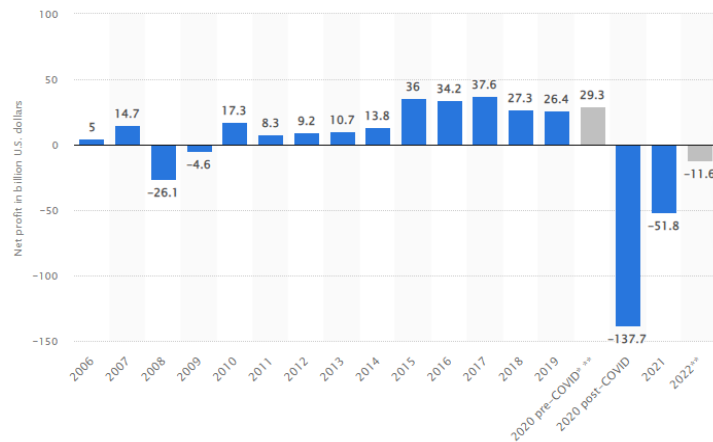
Total Incidents and Fatalities for Motor Vehicles



- On the other hand, the number of incidents involving motor vehicles has gone down overall but the trend line indicates an increase. Similarly, the number of fatalities shows a clear increase, and the trend line supports it, meaning that car travel is getting more fatal.
- *Sample taken from City of Baton Rouge 2021 traffic incident data

Net profit of commercial airlines worldwide from 2006 to 2022

(in billion U.S. dollars)



- In the past 15 years, airline profits have taken hits from the 2008 recession and the COVID-19 pandemic starting in 2020. However, with the 2008 recession, we saw a quick turnaround within 2 years and even after the deep hit from the COVID-19 pandemic, projections show the deficit decreasing year over year (-63% in 2021, projected -78% in 2022), despite the pandemic continuing through 2022.
- <https://www.statista.com/statistics/232513/net-profit-of-commercial-airlines-worldwide/>

Conclusion

Numbers don't lie and based on the evidence provided, US airlines are one of the safest modes of transportation and will continue to turn a profit for shareholders.



References

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- https://en.wikipedia.org/wiki/List_of_aircraft_accidents_and_incidents_resulting_in_at_least_50_fatalities
- <https://catalog.data.gov/dataset?tags=traffic>
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- https://en.wikipedia.org/wiki/Airline_Deregulation_Act

