Task 1 of Data Visualization Project

The scenario:

Due to recent unfortunate airline crashes, the media has been promoting statistics stating air is no longer a safe way to travel. The news and media outlets have been bombarding the public with reports and figures about the trends of airline safety and that things are not looking good. What was previously thought as the safest way to travel, especially when compared to automobiles, is now being presented as one of the most dangerous to the public. But are any of these claims based on facts?

You work for an airline on the data science team as a data analyst and are a resident data visualization expert. You have been tasked with helping multiple groups in the organization combat this negative publicity and help tell the airline's side of the story. There is a fear internally about what this type of media coverage will do to airline sales and how it could impact the future of the company. Not only do they need you to help create some internal communications, but you will also be tasked with what is published to the public and the media.

Task 1

The first task is to create an internal dashboard for your peers and data science management team that outlines the facts – what are the stats and what are the trends?

-=-=-

Below is the Task 1 Dashboard

Airline Accidents and Fatalities:

Trends and Statistics

Auto Travel Compared

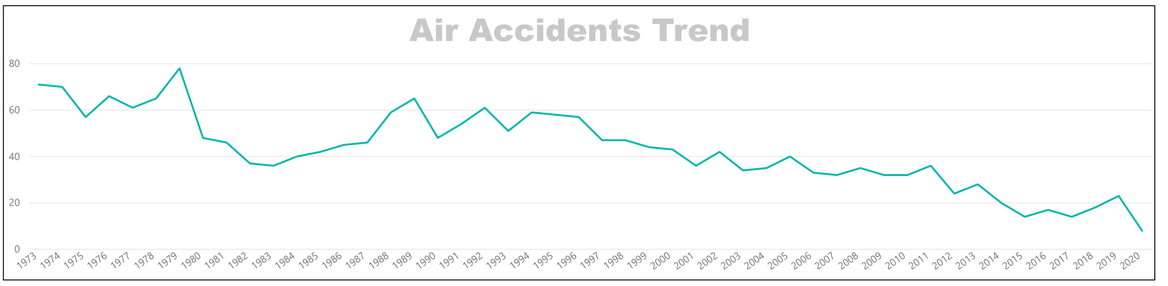
The Airline Industry is Important to the US Economy

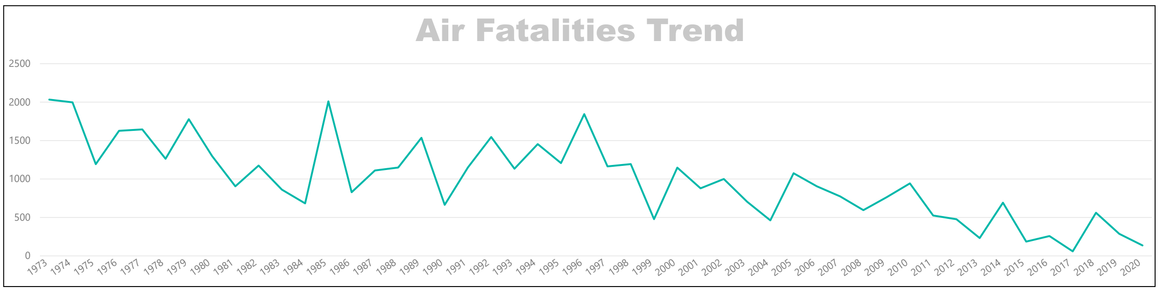
10M

Jobs Supported

Source: https://www.airlines.org/data/

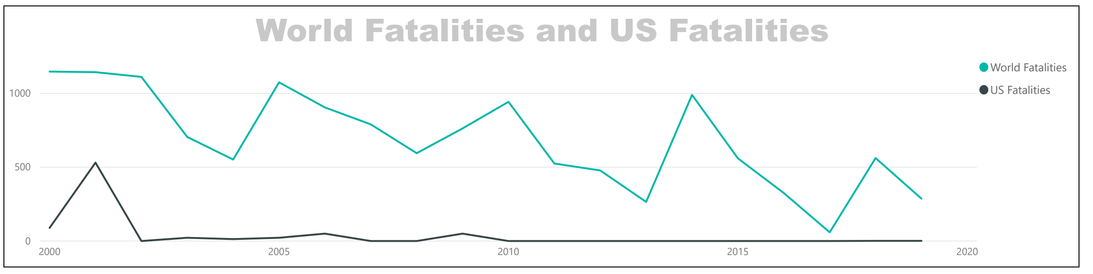
Incidents of Airline Accidents and Fatalities Have Been Decreasing for Years





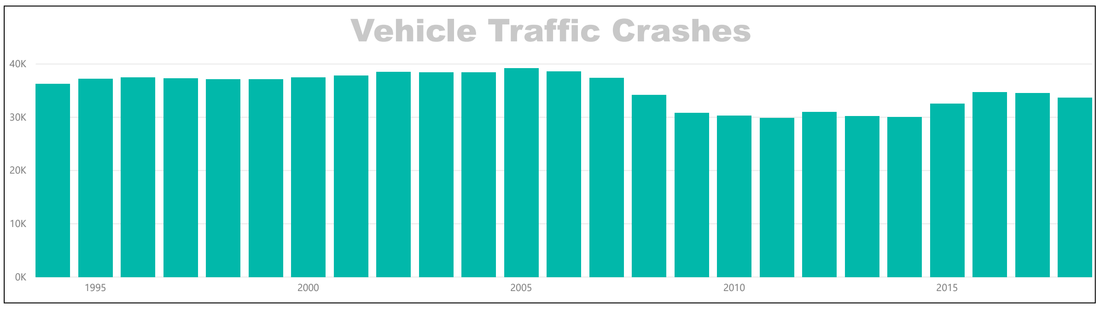
Source: https://aviation-safety.net/

U.S. Air Fatalities are Much Lower than World Air Fatalities



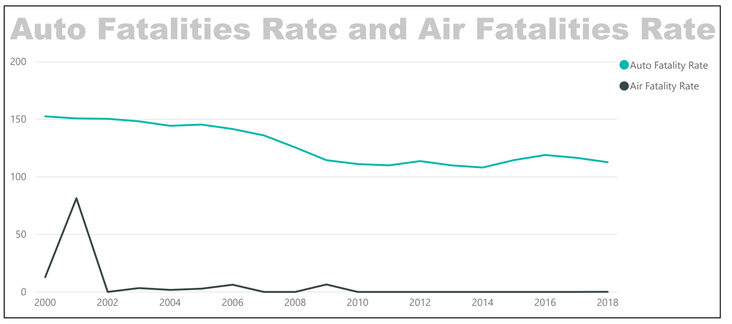
Sources: https://aviation-safety.net/ and https://www.airlines.org/dataset/safety-record-of-u-s-air-carriers/#

Vehicle Traffic Fatalities Trend Has NOT Been Decreasing



Source: https://www-fars.nhtsa.dot.gov/Main/index.aspx

Actually, Auto Fatalities per 10 Billion Auto Miles Traveled Greatly Exceed Air Fatalities per 10 Billion Air Miles Traveled



Year	Auto Fatality Rate	Air Fatality Rate
2000	152.69	12.85
2001	150.92	81.48
2002	150.58	0.00
2003	148.39	3.35
2004	144.47	1.77
2005	145.57	2.82
2006	141.70	6.27
2007	136.12	0.00
2008	125.71	0.00
2009	114.59	6.50
2010	111.22	0.00
2011	110.10	0.00
2012	113.78	0.00
2013	110.08	0.00
2014	108.21	0.00
2015	114.65	0.00
2016	119.11	0.00

Sources: https://www-fars.nhtsa.dot.gov/Main/index.aspx
https://aviation-safety.net/
https://www.airlines.org/dataset/annual-results-u-s-airlines-2/#