inmarsat aviation

Friends and Partners in Aviation Weather

Mary McMillan
Vice President, Safety and Operational Services
Inmarsat Aviation

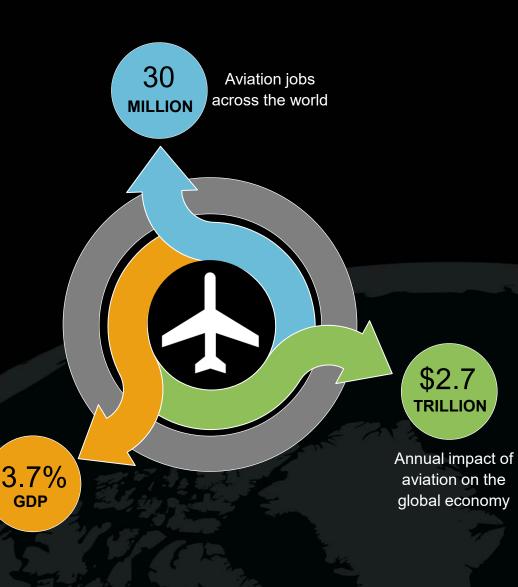
July 13, 2017







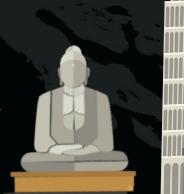
AVIATION'S IMPACT ON THE GLOBAL ECONOMY



If the aviation industry were a country, it would rank #6 in world GDP . . .

...bigger than:

- India
- Italy
- France





Percentage of

world GDP

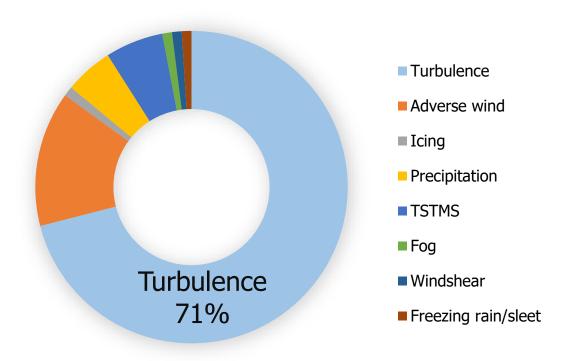
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TURBULENCE HAS CAUSED MORE SERIOUS INJURIES TO PASSENGERS THAN ANY OTHER CLASS OF ACCIDENT



Air carrier weather related cause/factors 2000-2011



Signifiant Turbulence Incidents & Accidents 2002 - 2016

Year	Passenger	Crew	Total
2016	33	11	44
2015	7	14	21
2014	22	9	31
2013	9	4	13
2012	9	21	31
2011	6	23	29
2010	62	27	89
2009	80	26	107
2008	18	16	34
2007	5	20	25
2006	4	8	12
2005	9	9	18
2004	6	11	17
2003	19	26	45
2002	35	12	47

*NTSB, Office of Aviation Safety

*FAA Turbulence Fact Sheet

TURBULENCE COSTS OVER \$100M PER YEAR





- In nonfatal accidents, in-flight turbulence is the leading cause of injuries to airline passengers and flight attendants.
- Each year, approximately 58 people in the United States are injured by turbulence while not wearing their seat belts.
- From 1980 through 2008, U.S. air carriers had 234 turbulence accidents, resulting in 298 serious injuries and three fatalities.
- Of the 298 serious injuries, 184 involved flight attendants and 114 involved passengers.
- Generally, two-thirds of turbulence-related accidents occur at or above 30,000 feet.





Turbulence is the greatest cause of airline injuries and costs airlines at least \$100 million each year.

*NASA Aviation Safety Program

REAL-TIME WEATHER APPLICATIONS FOR THE ELECTRONIC FLIGHT BAG





- Real-time data allows pilots to make better informed decisions to avoid rough weather
- Leads to less fuel burn and more comfortable passengers

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