

# AVIATION ANALYSIS

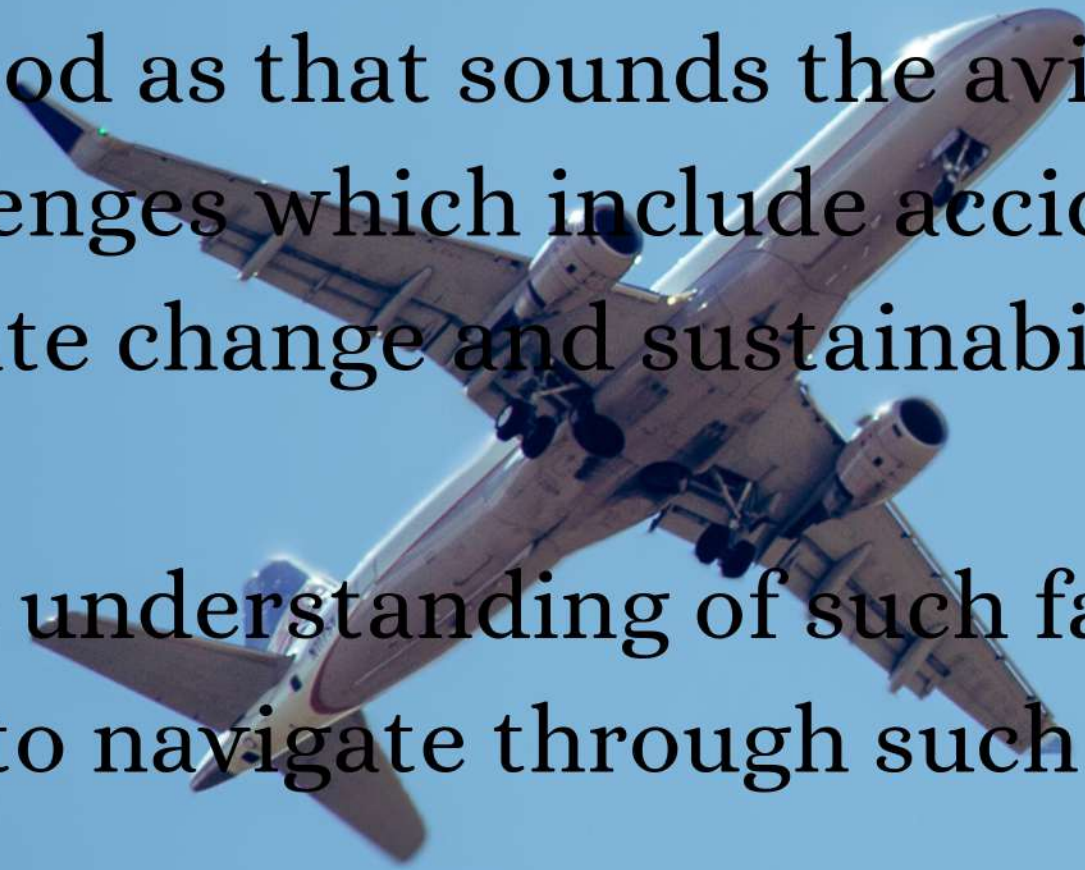




# OVERVIEW

## INTRODUCTION

- The aviation sector is growing faster and will continue to grow.
- As good as that sounds the aviation industry also faces it's own fair share of challenges which include accidents due to the condition of the aircraft and the climate change and sustainability among others.
- Basic understanding of such factors will give us insists on what to invest in and how to navigate through such factors and challenges.





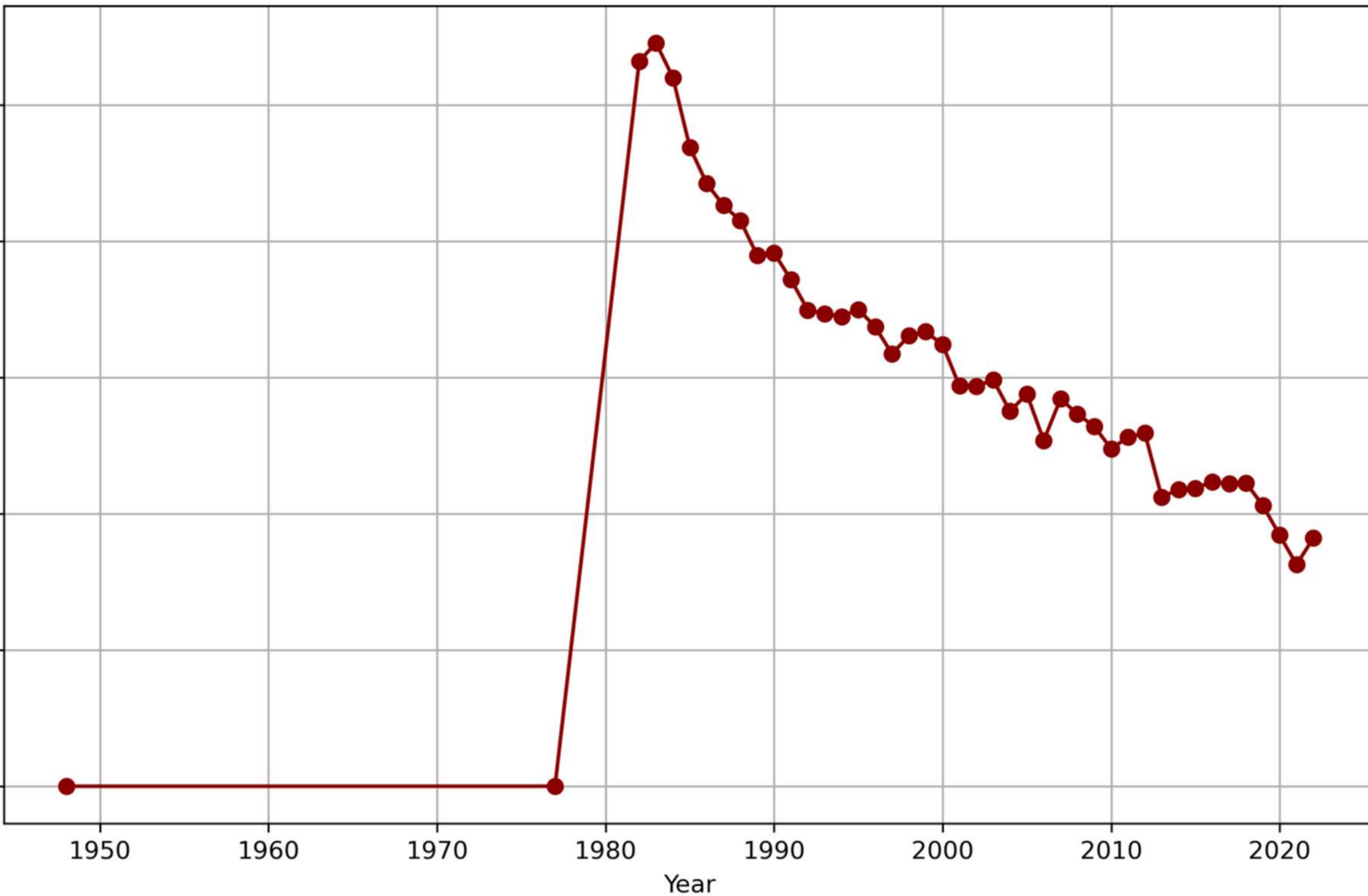
# OBJECTIVES

- \*How do different weather patterns influence accidents**
- \* Difference in aircraft operations between the private and commercial enterprise**
- \* Aircrafts with a high and low risk of investment**
  - \* The safety of air transport with time**
  - \* The future of the Aviation sector**

# FINDINGS

## ACCIDENTS OVER THE YEARS IN THE USA

Accidents in the United States Over the Years

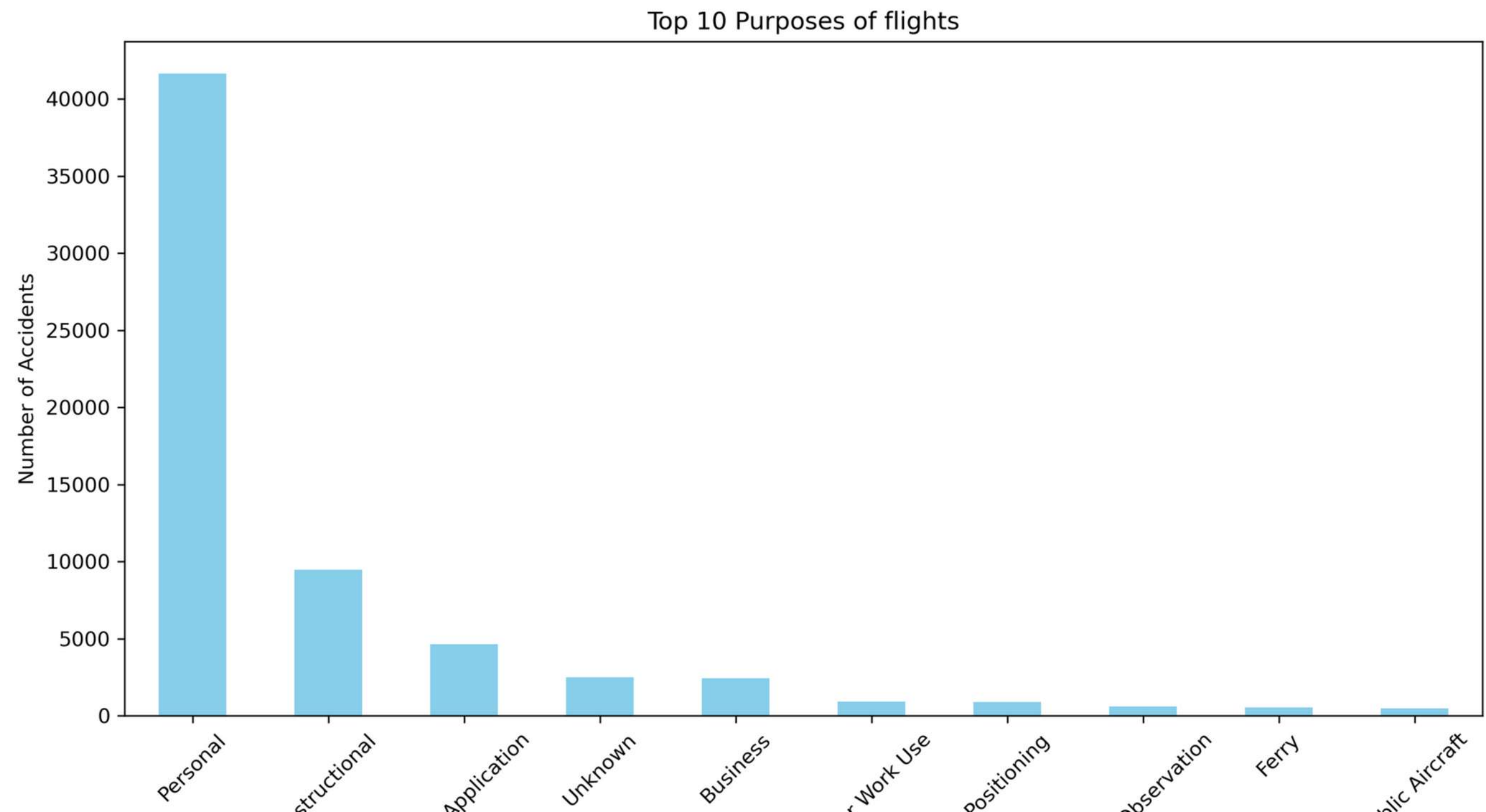


THE UNITED STATES OF AMERICA CONTRIBUTES MAJORITY OF ACCIDENTS AT **64,396** WHICH IS AROUND **98.9%**. THIS IS INCLUDES A GRADUAL DECREASE IN THE CONSECUTIVE DECADES UP TO THE EARLY **2020'S**



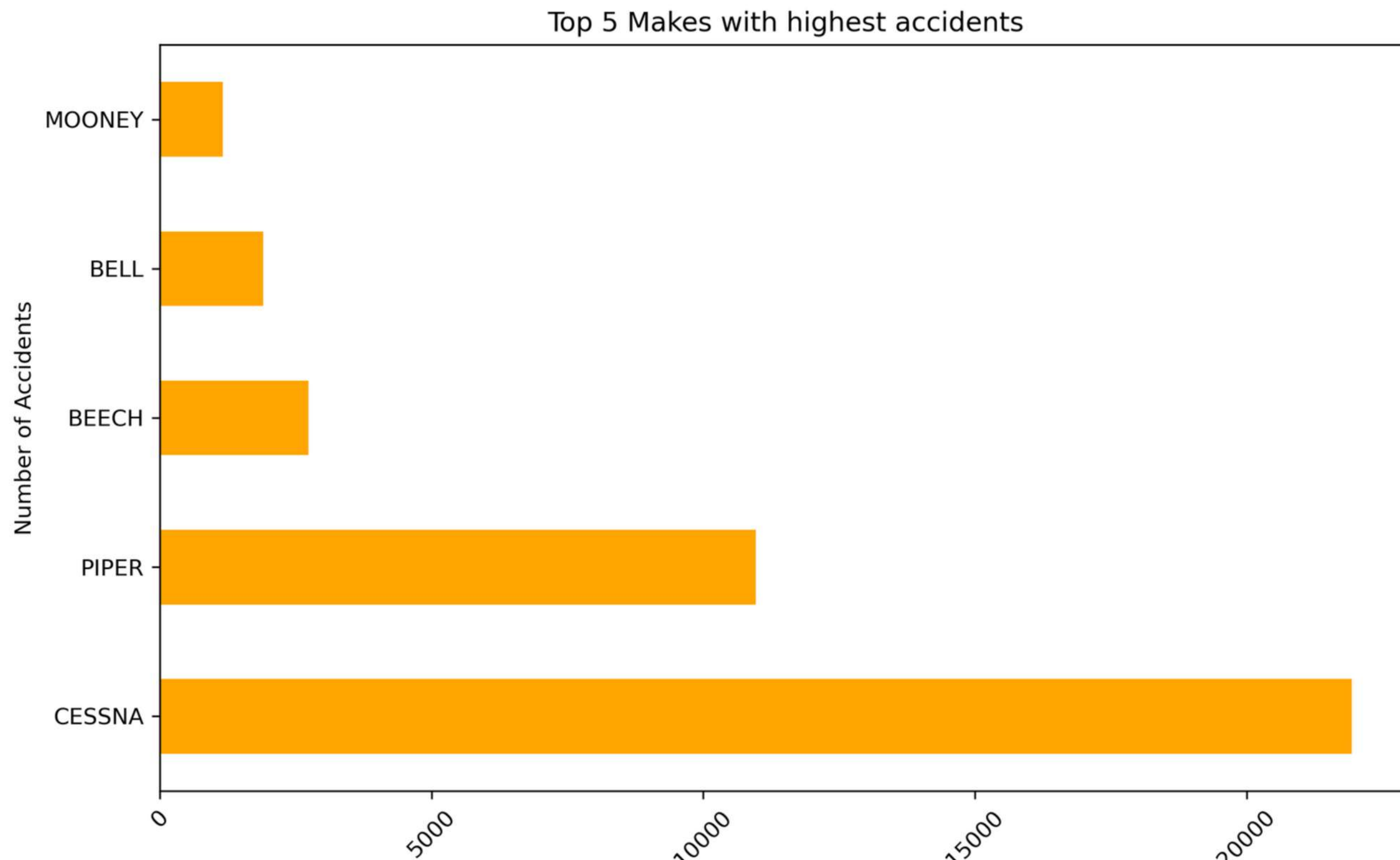
# TOP 10 PURPOSE OF FLIGHTS

MAJORITY OF PEOPLE USE AIR TRANSPORT FOR PERSONAL PURPOSES AT **63.96%** FOLLOWED BY INSTRUCTIONAL AND AERIAL APPLICATION WITH **14.54%** AND **7.1%** RESPECTIVELY. PUBL(PUBLIC USE – LAW ENFORCEMENT) AND PUBS(PUBLIC SERVICE ) ARE NOT POPULAR AT **0.0015%** AND **0.006%** RESPECTIVELY



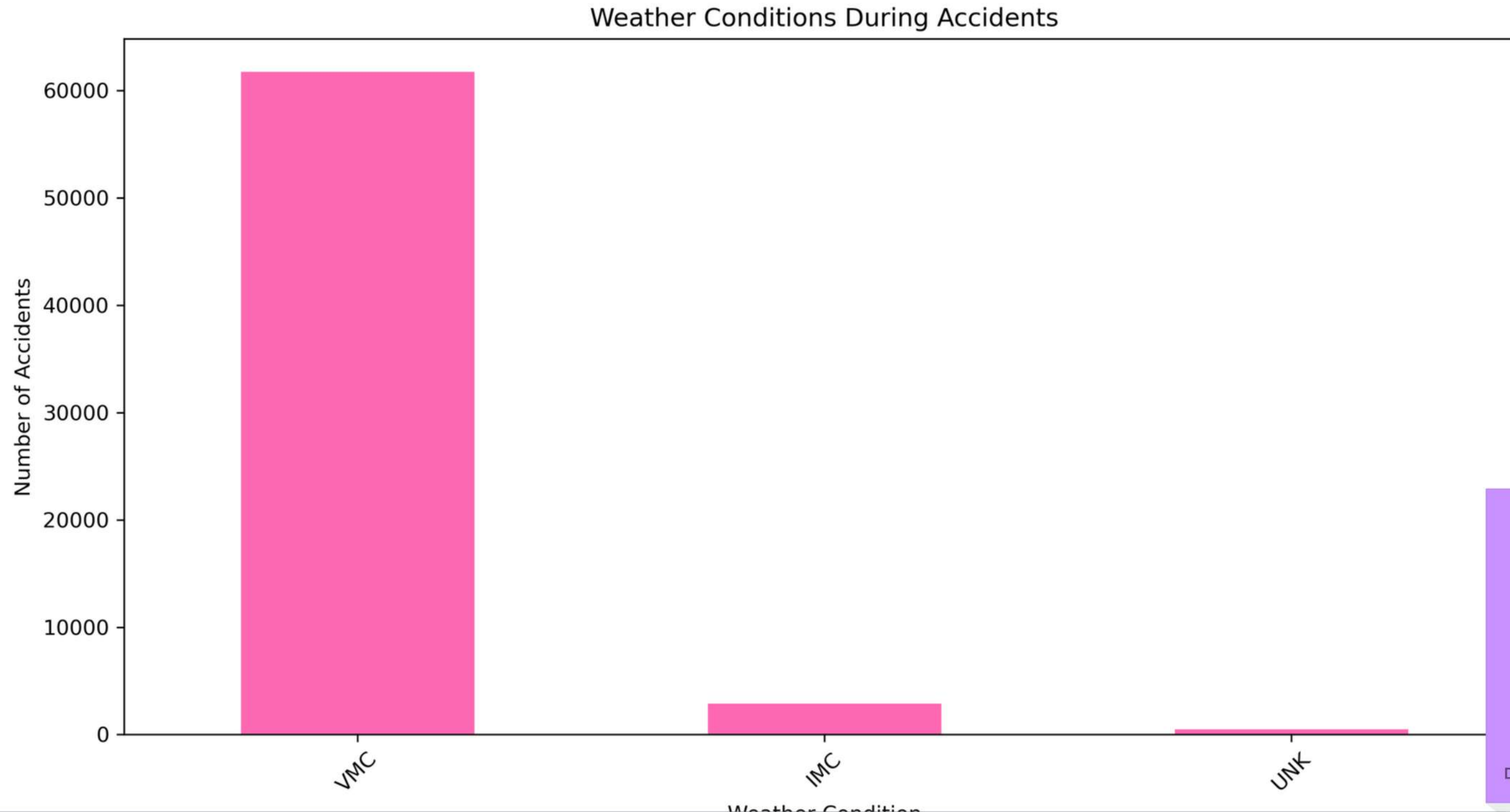
# TOP 5 MAKES INCURING ACCIDENTS

## CESSNA EXPERIENCES THE HIGHEST AMOUNT OF ACCIDENTS AT 33.69% FOLLOWED BY PIPER WITH 16.85%.



# HOW WEATHER CONDITIONS INFLUENCE ACCIDENTS

WEATHER CONDITIONS DO NOT DIRECTLY INFLUENCE ACCIDENTS FROM OUR BARGRAPH ABOVE WE CAN EASILY READ THAT MAJORITY OF THE ACCIDENTS AT **61,731** TOOK PLACE DURING **VMC** WHERE NORMALLY THE SKY IS CLEAR AND NOT DURING THE **IMC** AS WE WOULD EXPECT BECAUSE OF POOR WEATHER CONDITIONS AND LOW VISIBILTY.



- UNK IS UNKOWN
- VMC – Visual Meteorological Conditions .
- IMC – Instrument Meteorological Conditions



# RECOMMENDATIONS

- **CONSIDER OTHER FACTORS THAT CAUSE ACCIDENTS IN AIRTRANSPORT E.G ENGINE FAILURE, SYSTEM MALFUNCTION,PILOT ERROR ETC.**
- **CONSIDER INVESTING IN PERSONAL,INSTRUCTIONAL AND AERIAL APPLICATION BECAUSE MAJORITY OF PEOPLE USE AIRCRAFTS MAINLY FOR THOSE REASONS.**
- **USA HAS THE LARGEST AVIATION SYSTEM IN THE WORLD IT'S ADVISABLE TO INVEST THIS IT COMPARED TO OTHER COUNTRIES.**
- **AVOID PURCHASING CESSNA AND PIPER MAKE OF AIRCRAFT BECAUSE OF THE LARGE INVOLMENT IN ACCIDENTS AND THE LEVEL OF DAMAGE INCURED BY THE AIRCRAFT**
- **PURCHASE POPULAR BUT SAFER AIRCRAFT MAKE'S LIKE BEECH AND BELL BECAUSE IT'S EASIER TO FIND PARTS AND HAVE EXPERIENCE.**



# CONCLUSION

- **AIR TRANSPORT REMAINS ONE OF THE FASTEST, AND MOST ESSENTIAL MODES OF MODERN TRANSPORTATION.**
- **DESPITE OCCASIONAL ACCIDENTS, THE OVERALL DECLINE IN ACCIDENTS IS OUTSTANDING, ESPECIALLY IN DEVELOPING MARKETS LIKE THE UNITED STATES, WHERE REGULATORY OVERSIGHT AND CUTTING-EDGE TECHNOLOGY CONTINUOUSLY IMPROVE SAFETY STANDARDS.**
- **INVESTING NOW POSITIONS STAKEHOLDERS TO BENEFIT FROM THE NEXT WAVE OF INNOVATION, CONNECTIVITY, AND GLOBAL GROWTH IN THE INDUSTRY.**





"THANKS FOR FLYING THROUGH THE DATA  
— WE'VE LANDED RIGHT ON SCHEDULE!"



BY:DAISY KERUBO THOMAS