PROJECT REPORT

THE TRAGEDY OF FLIGHT: A COMPREHENSIVE CRASH ANALYSIS

1.INTRODUCTION:

1.1 OVERVIEW:

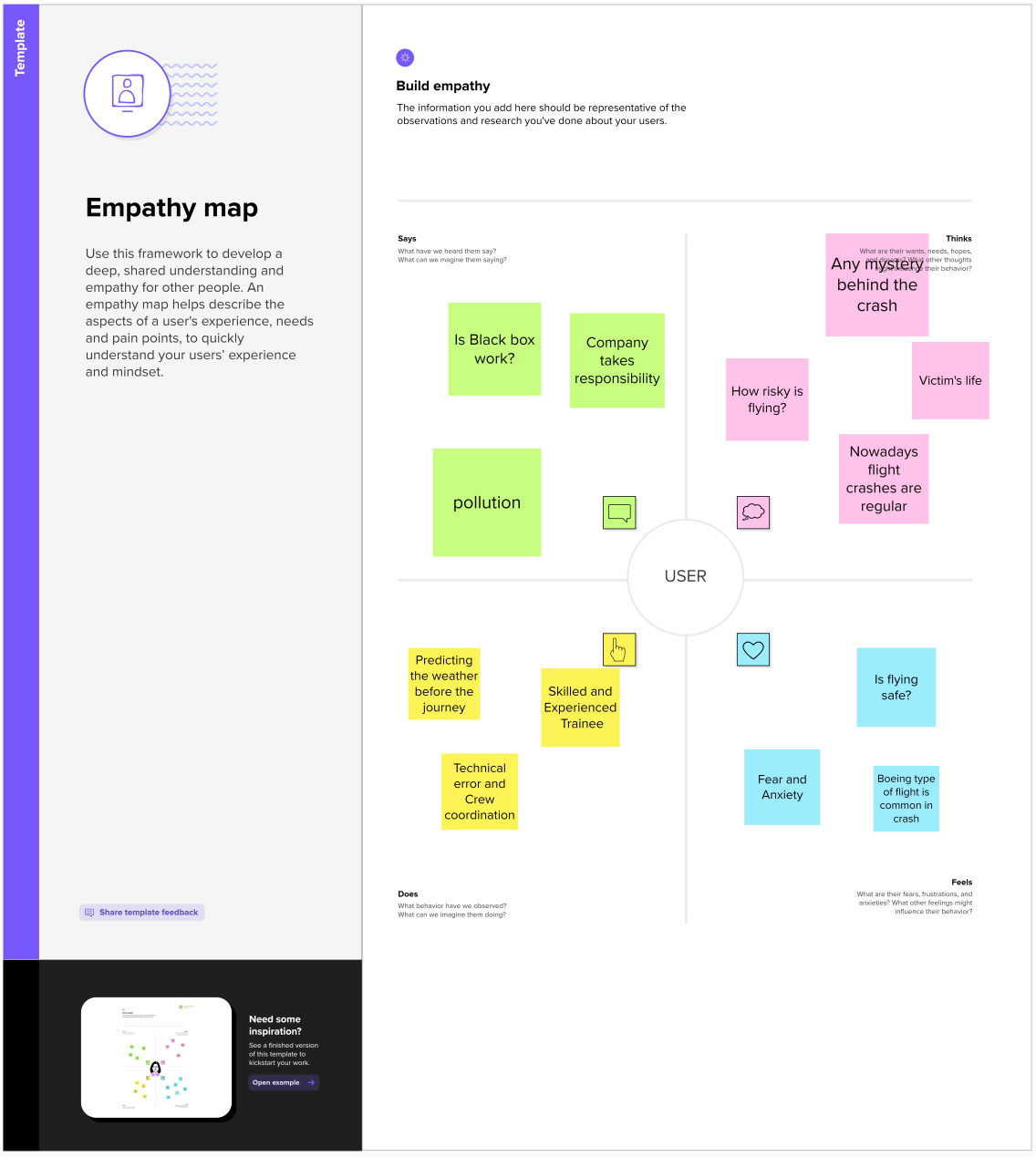
An airplane crash analysis is a detailed investigation into the causes of an aviation accident. The goal of an airplane crash analysis is to identify any factors that contributed to the accident, with the ultimate goal of improving safety and preventing future accidents. The process of conducting an airplane crash analysis typically involves the collection and analysis of a wide range of data, including information about the aircraft and its systems, the operators, and any other relevant factors. This data is typically collected from Kaggle. Once the data has been collected, it is analysed through tableau, to identify any potential causes of the accident. The results of an airplane crash analysis are typically published in a report, which may include recommendations for improving safety and preventing similar accidents in the future. These recommendations may be implemented by the relevant authorities or industry organizations.

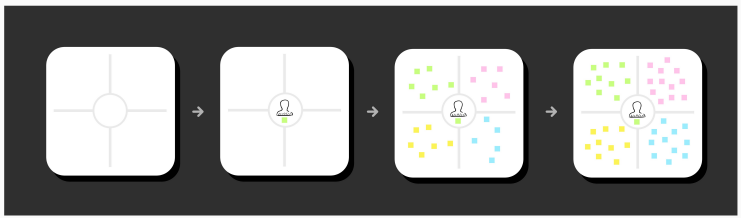
1.2PURPOSE:

Recognize the Flight crash analysis in the past years and the maximum accidents.

2.PROBLEM DEFINITION & DESIGN THINKING

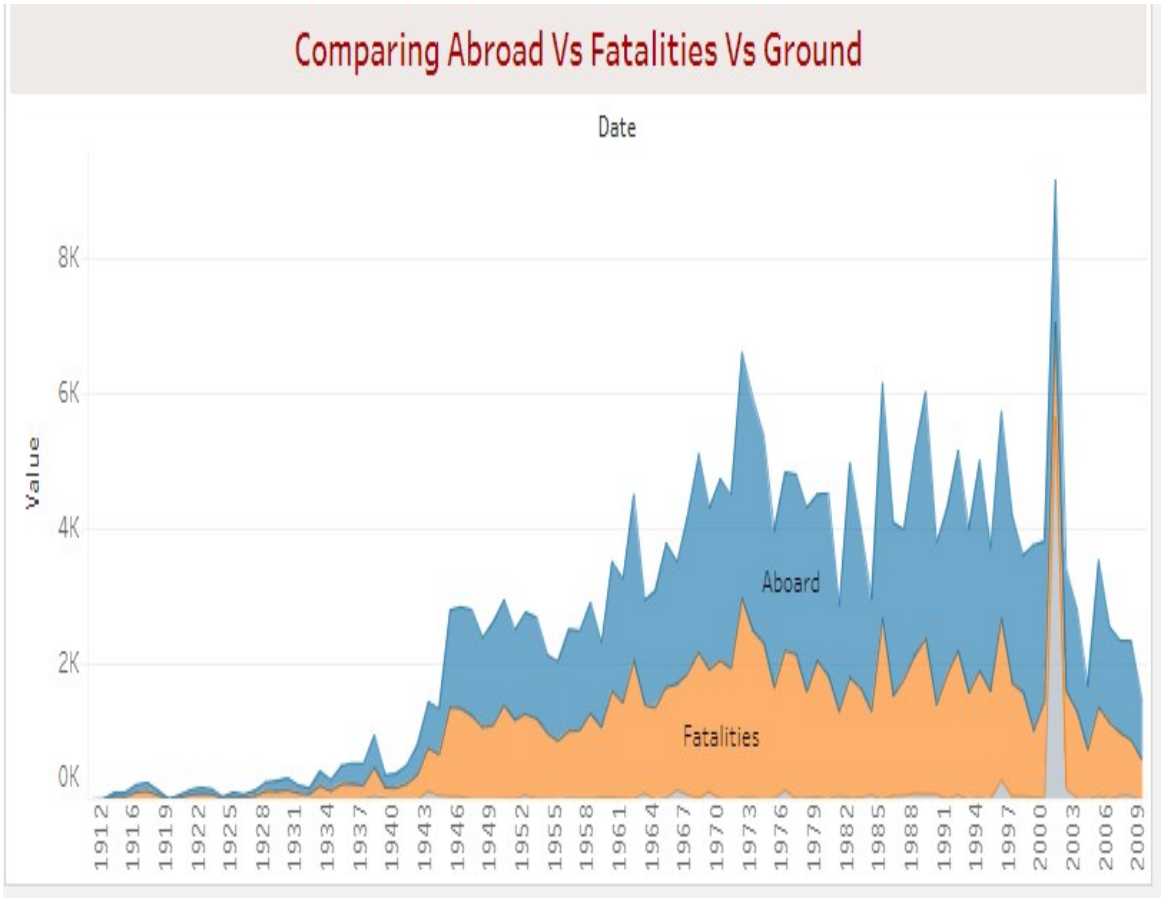
2.1 EMPATHY MAP



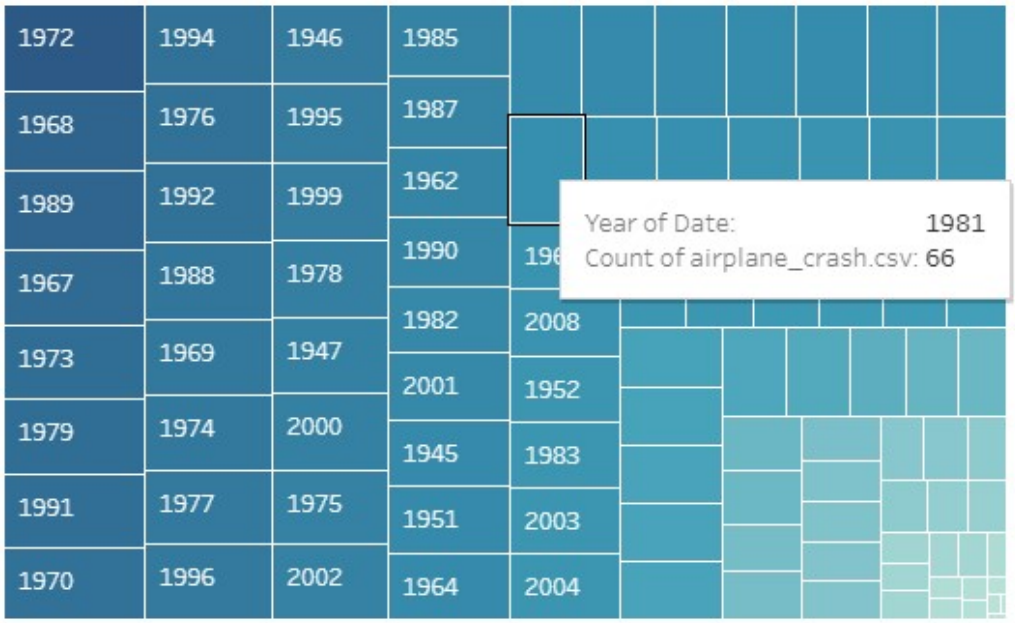


2.2 IDEATION& BRAINSTOMING:

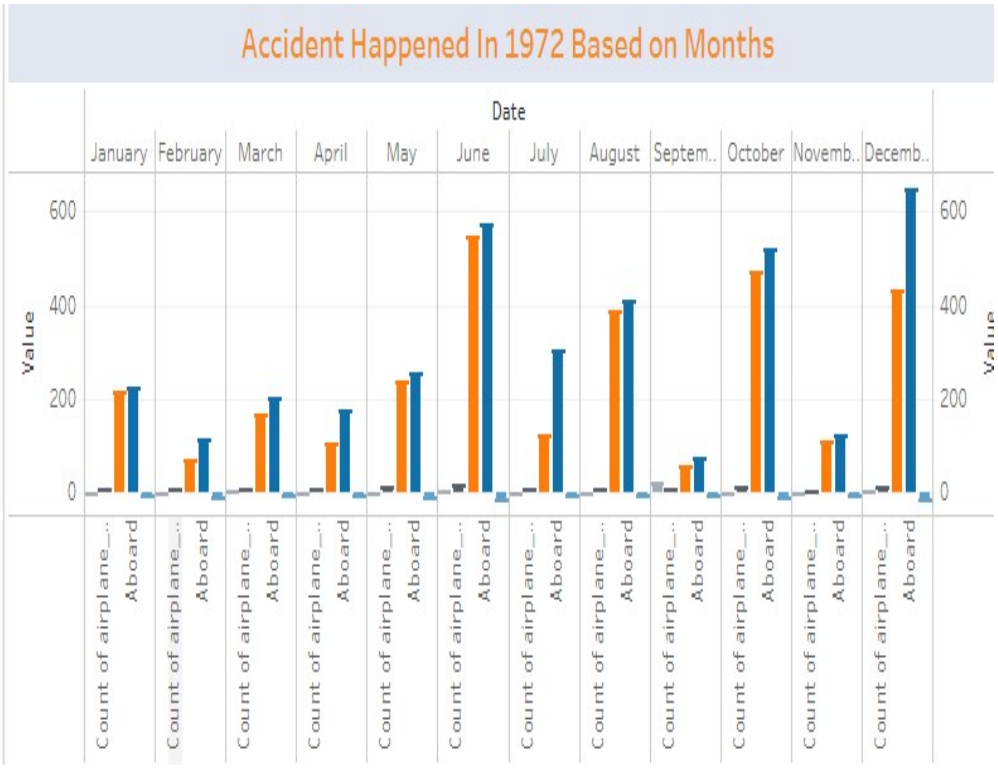
3. RESULT:



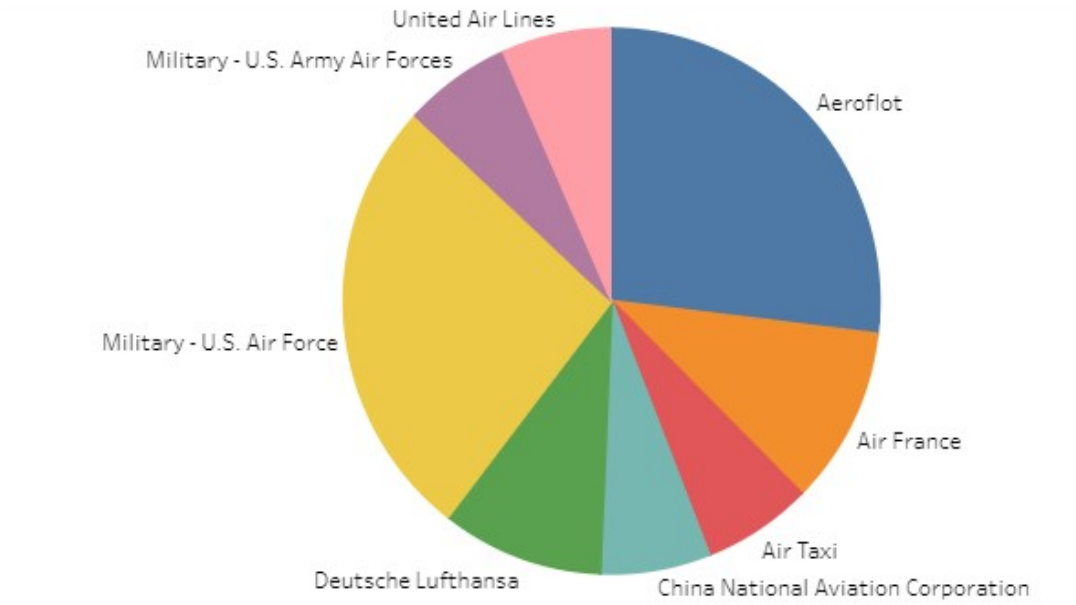
Max accidents based On years



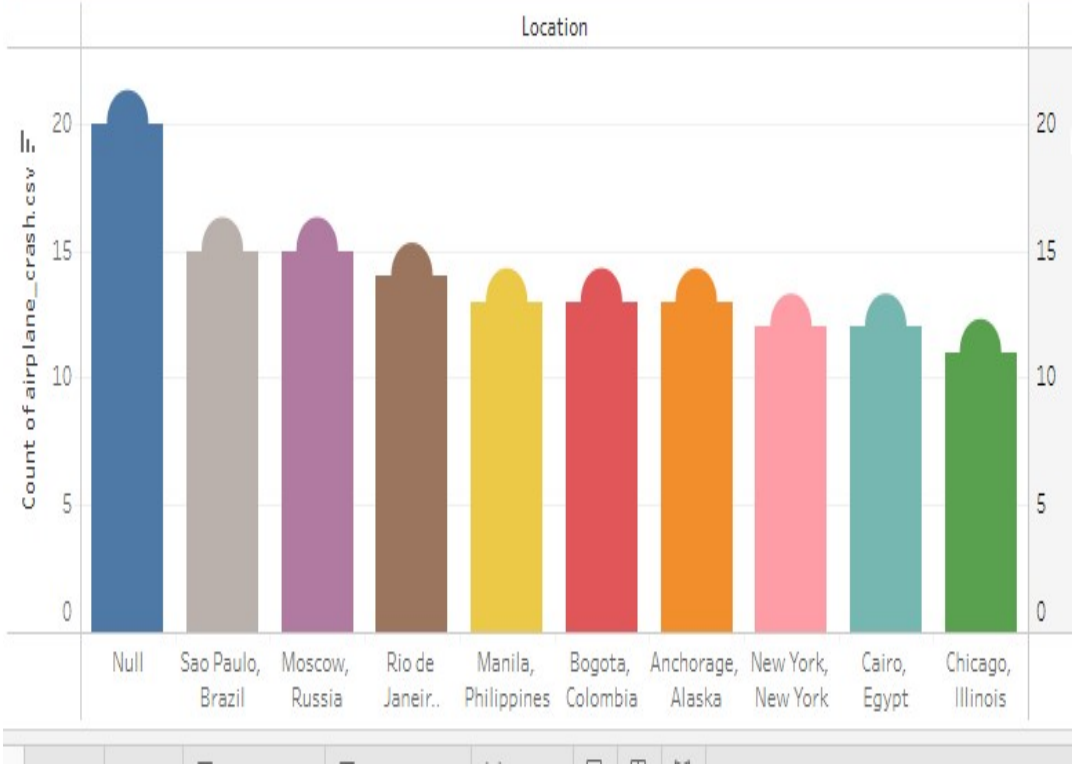
Accident Happened In 1972 Based on Months

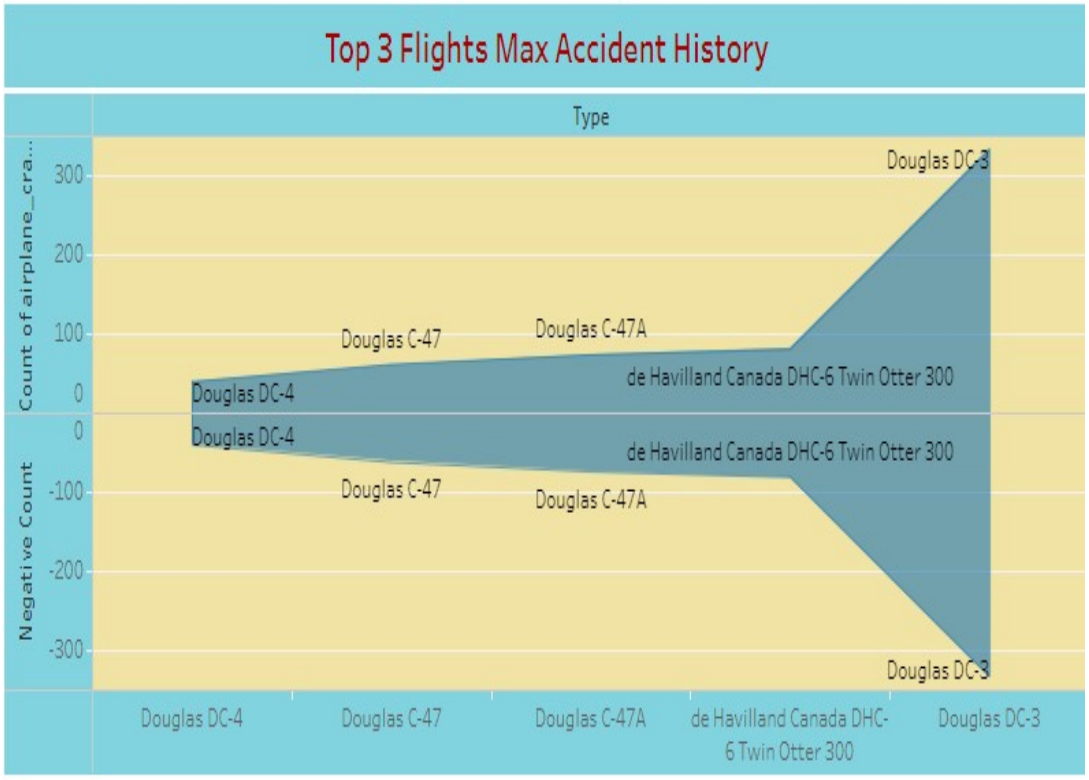


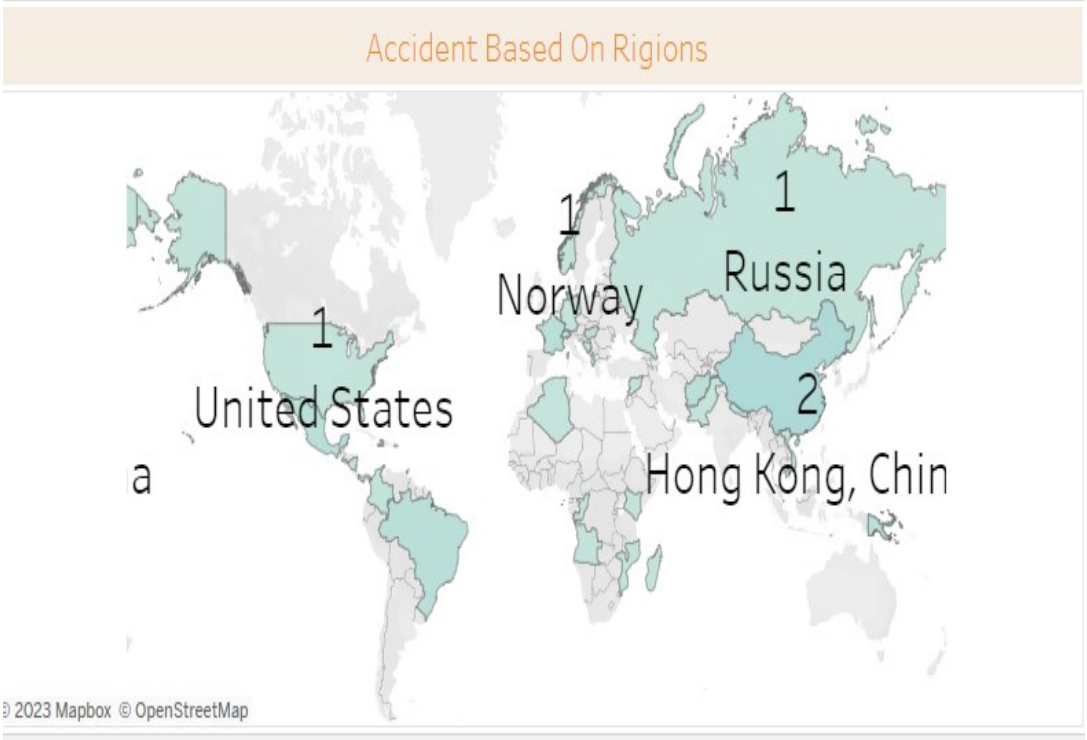
Highest No. of Accident Happened By Operators



Top 10 Locations Which Had More Accidents




Top 3 Flights Max Accident History
Type
Count of airplane_cra...
300
200
100
0
Negative Count
0
-100
-200
-300
Douglas DC-3
Douglas C-47
Douglas C-47A
Douglas DC-4
de Havilland Canada DHC-6 Twin Otter 300
Douglas DC-4
de Havilland Canada DHC-6 Twin Otter 300
Douglas C-47
Douglas C-47A
Douglas DC-3
Douglas DC-4
Douglas C-47
Douglas C-47A
de Havilland Canada DHC-6 Twin Otter 300
Douglas DC-3


Accident Based On Rigions
1
1
Russia
Norway
1
United States
a
2
Hong Kong, Chin
© 2023 Mapbox © OpenStreetMap

ADVANTAGES:

Automatic Flight Control Systems:

It can play a critical role in enhancing the safety of aircraft. This technology uses computer programs and sensors to monitor the performance of the aircraft and adjust controls as needed, reducing the potential for human error during flights.

Use of Technology:

The use of advanced technology, such as collision avoidance systems and weather forecasting tools, can help pilots to make informed decisions and avoid potential hazards.

DISADVANTAGES:

Loss of life:

Air accidents can result in the loss of many lives, including passengers and crew members. This can have a devastating impact on families and loved ones of those who were lost.

Injuries:

Even when lives are not lost, air accidents can result in serious injuries to passengers and crew members.

Economic impact:

Air accidents can have significant economic consequences, including damage to aircraft and infrastructure, loss of revenue for airlines, and increased insurance costs.

5. APPLICATION:

The primary purpose of doing a tragedy of flight analysis of a project is to evaluate the project's profitability or cost-effectiveness relative to some alternative project or investment. Frequently, the results of the tragedy of flight analysis are used to reduce the accidents.

6. CONCLUSION:

Flight accidents can have devastating consequences, both in terms of loss of life and economic impact. While it is impossible to completely eliminate the risk of air accidents, steps can be taken to minimize the likelihood of such events occurring. These include regular maintenance and inspections, comprehensive pilot training, effective planning and preparation, use of advanced technology, strict safety protocols, and effective communication between all parties involved in the aviation industry. By working together to minimize risks and ensure the safety of passengers and crew, we can help to prevent the negative consequences associated with flight accidents. It is essential for the aviation industry to continuously review and improve safety measures to ensure that air travel remains one of the safest modes of transportation.

7. FUTURE SCOPE:

Investing in advanced technology:

The aviation industry should invest in advanced technology such as improved navigation systems, automated landing systems, and collision avoidance systems that can help to prevent accidents caused by human error.

Improved communication:

Communication between pilots, air traffic controllers, and ground crews should be improved to ensure that all parties are aware of potential risks and can work together to avoid accidents.