



THE TRAGEDY OF FLIGHT : A COMPREHENSIVE CRASH ANALYSIS

ABOUT MY TEAM

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- Team Size : 4
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- Team Members:
 1. Manisha V
 2. Keerthiga M
 3. Meena SN

1.INTRODUCTION

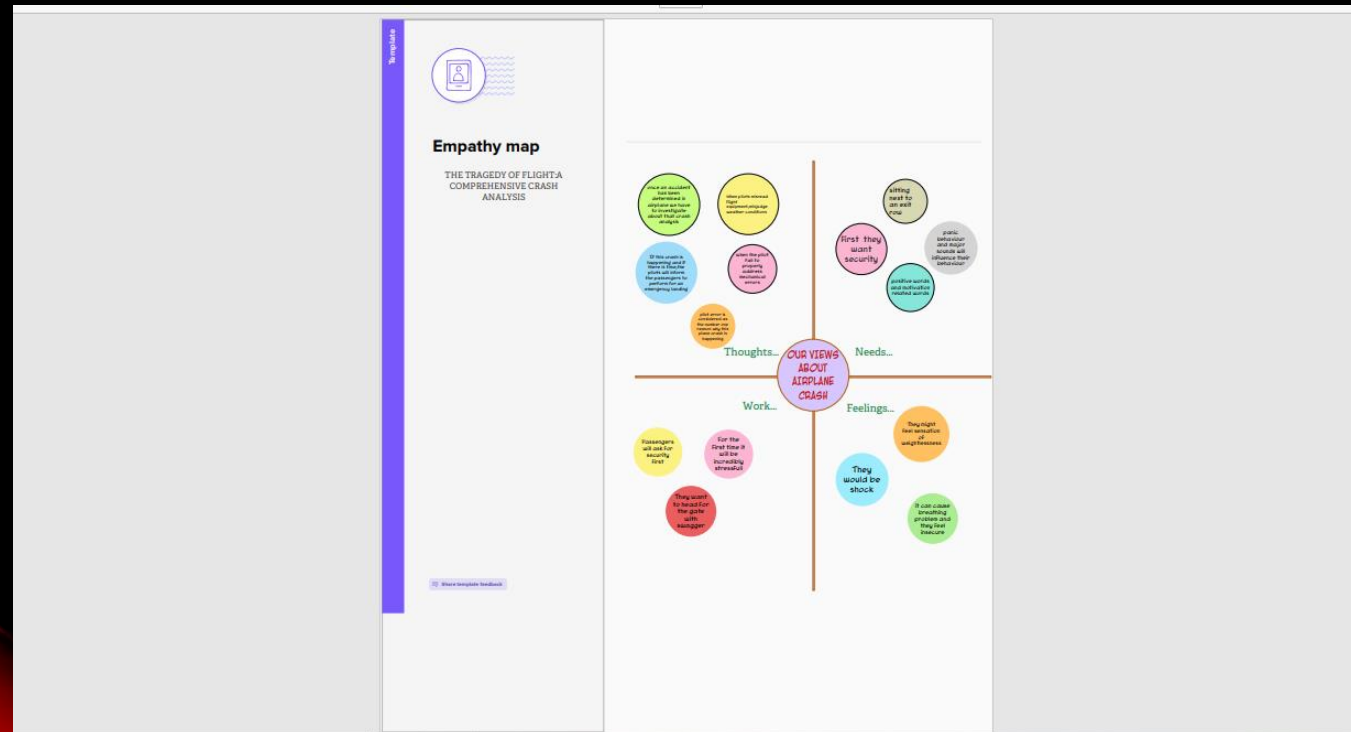
- An aviation accident is defined by the convention on international civil Aviation Annex 13 as an occurrence associated with the operation of an aircraft , which takes place from the time any person boards the aircraft with the intention of flight until all such persons have disembarked in which
- A person is fatally or seriously injured.
- The aircraft sustains significant damage or structural failure
- The aircraft goes missing or becomes completely inaccessible.

PURPOSE OF THIS PROJECT

- 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.

2.PROBLEM DEFINITION AND DESIGN THINKING.

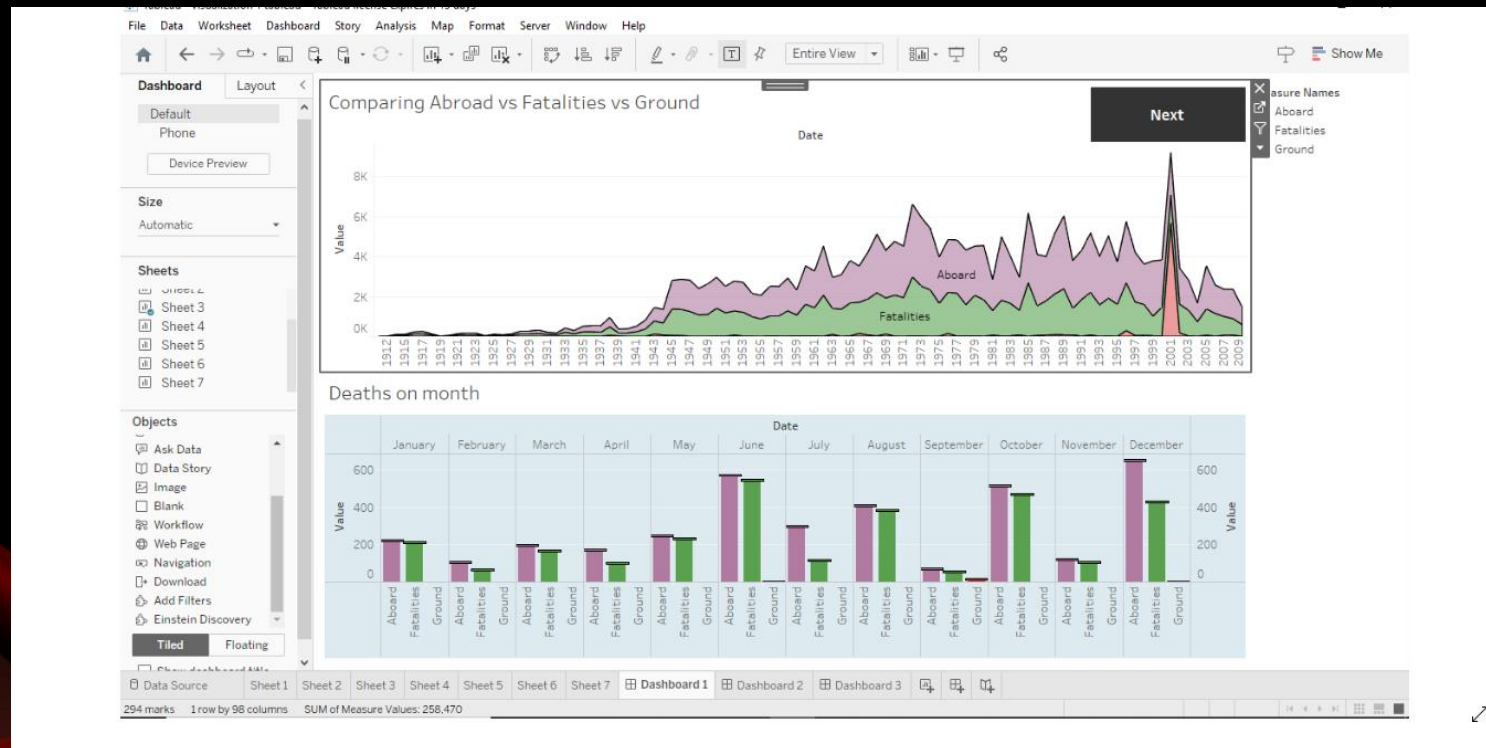
Empathy Map



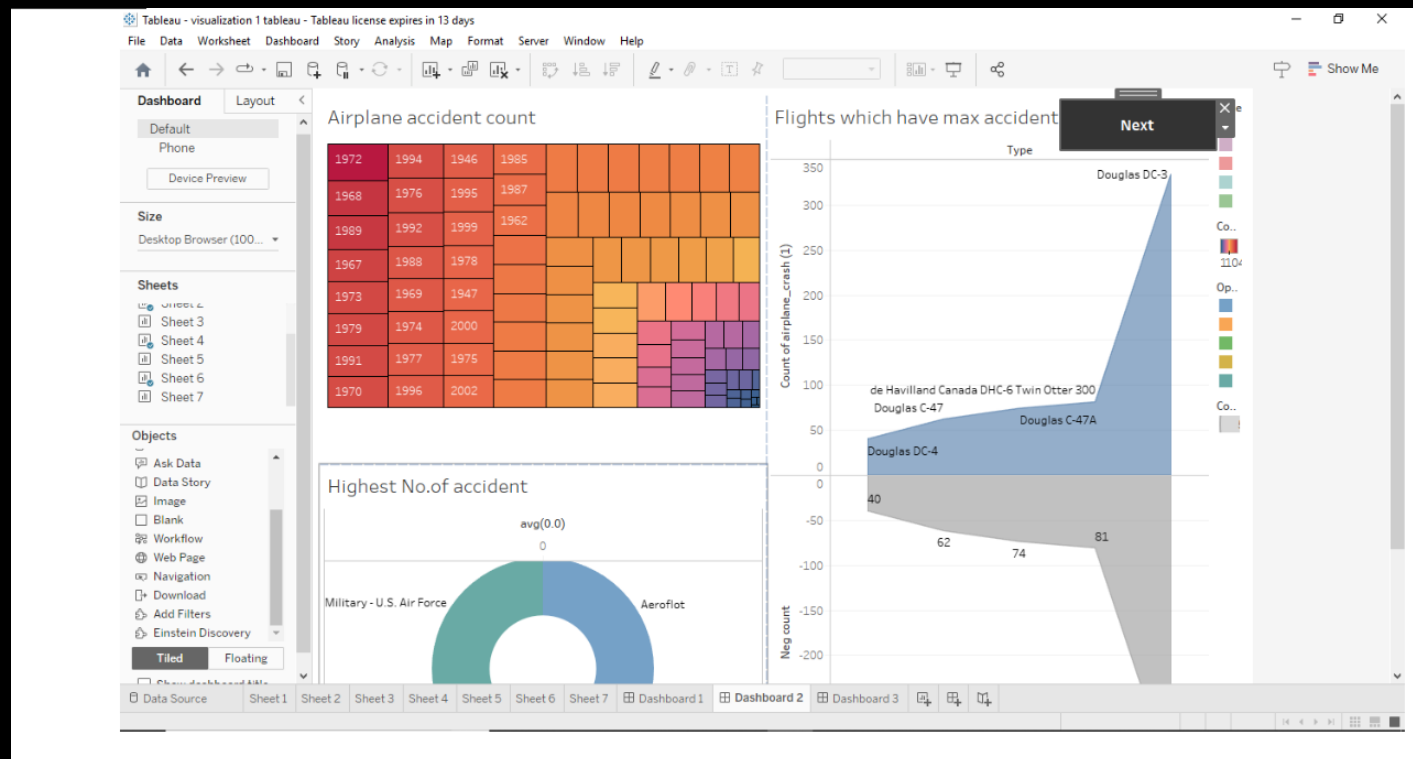
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3.RESULT

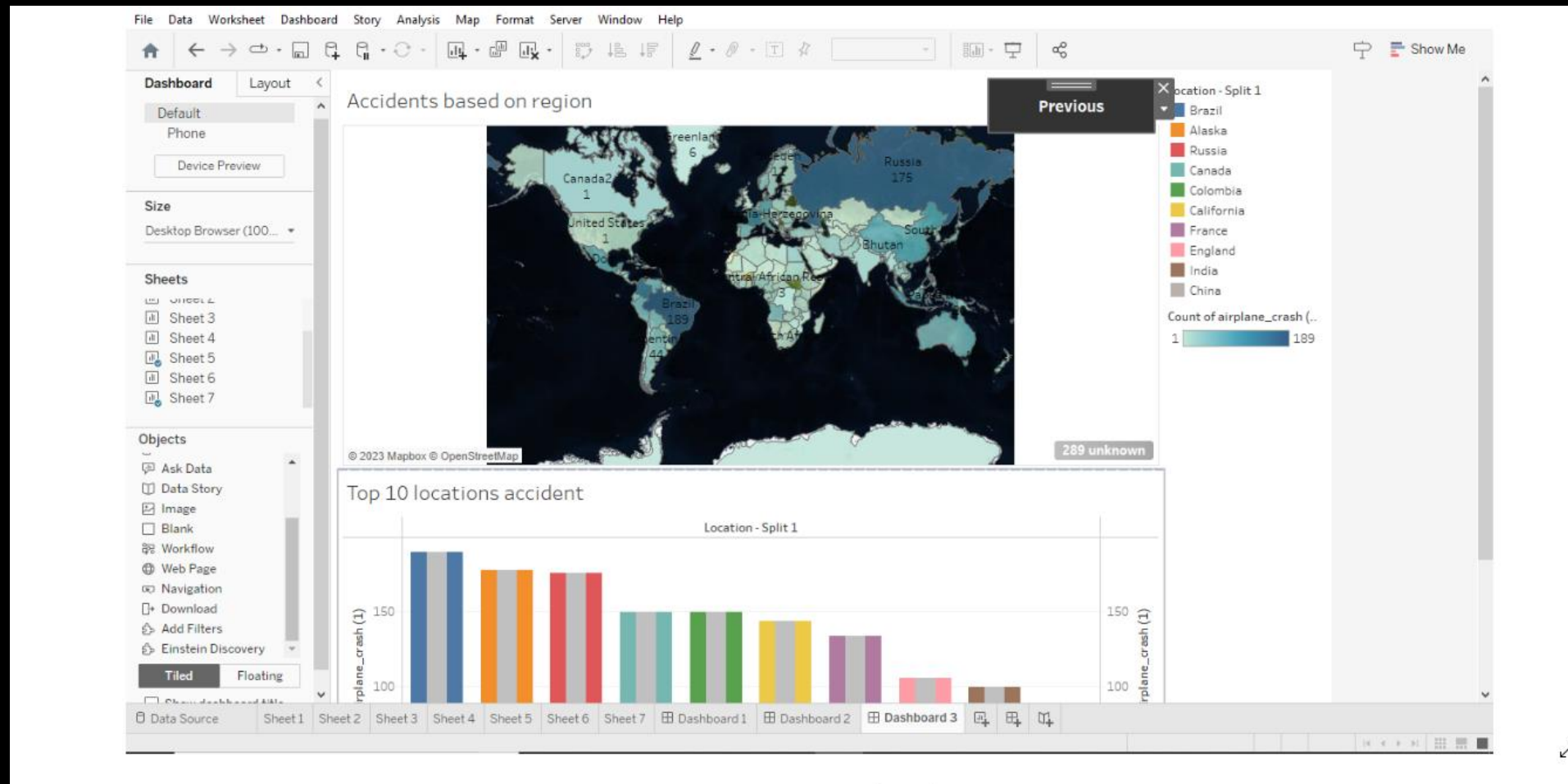
DASHBOARD 1



DASHBOARD 2



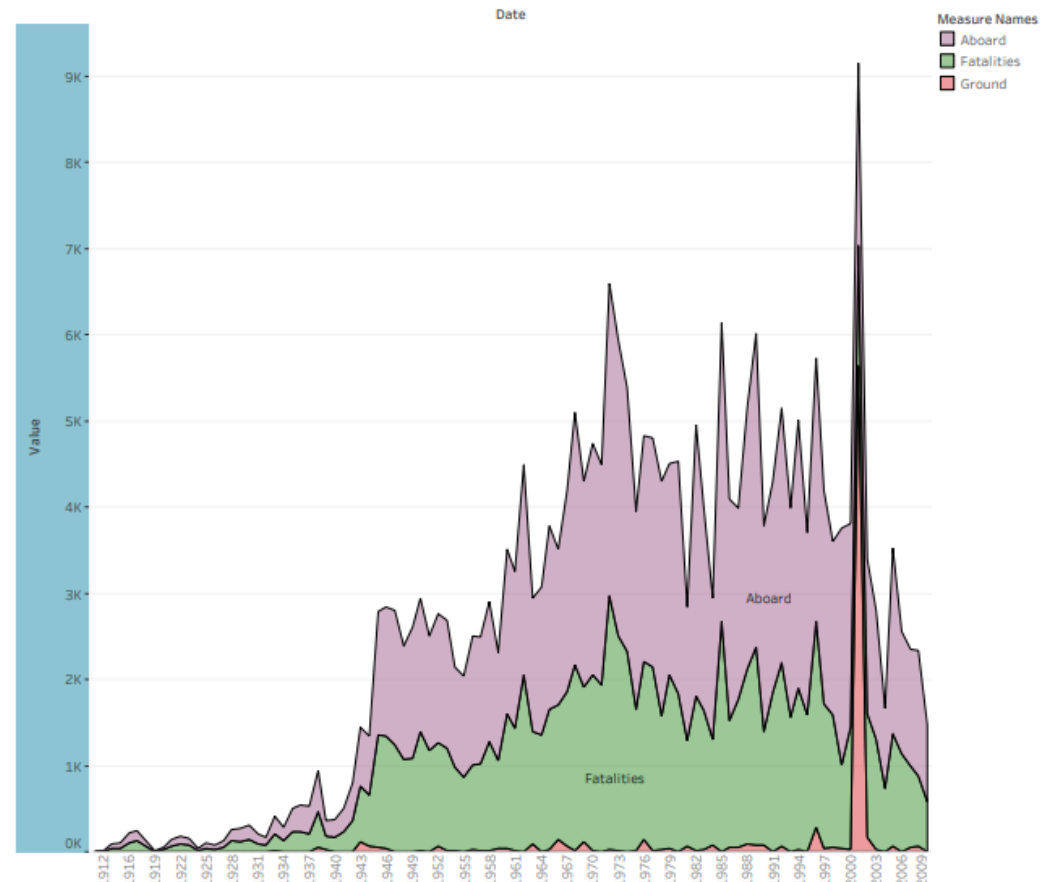
DASHBOARD 3



TRAGEDY OF FLIGHT : STORY

Story 1

Sum of accidents type{ abroad,fatalities,gro..	No.of accidents based on years..	Accidents happened in 1972 (MAX ACCIDENT..	Highest No.of accident happened by Operato..	Top 10 locations which had more accidents..	Top 3 flights which have max accident his..	Accidents based on re..
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WEB INTEGRATION

File | C:/Users/ELCOI/Desktop/Airplane%20crash%20analysis/index.html

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Airplane Crash analysis

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ABOUT PROJECT





4.PROS AND CONS OF OUR PROPOSED SOLUTION.

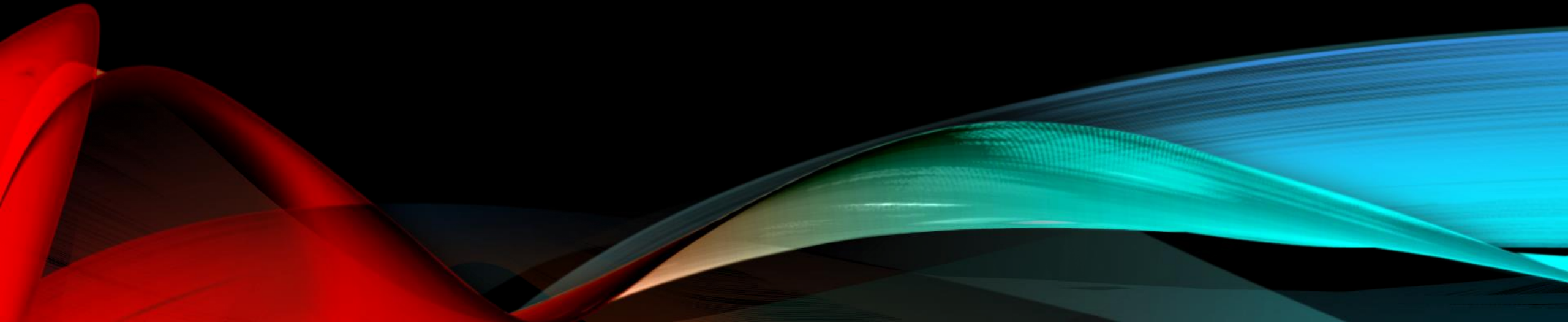
ADVANTAGES

1. Crash analysis is a major tool in obtaining an understanding of the existing situation and how it could be improved by ITS
2. It helps to provide an understanding of the most effective solutions and is essential for monitoring and evaluating the safety of plane network
3. It has low infrastructure , no physical barriers , defence service and security.

DISADVANTAGES

1. In crashes the aircraft structure collapses and the individual is injured by impact.
 2. Security Measures can be inconvenient and Time consuming.
 3. An aviation accident may damage or compress a passengers spinal cord , causing partial or total paralysis.
- Pilot error is the number one cause of aviation accidents.

5.APPLICATION OF OUR PROPOSED PROJECT



APPLICATION

- With the help of this we are able to find the accidents based on regions.
- It can be used in the field of military , research, transportation of goods and services.
- It can provide a rapid worldwide transportation network, generating economic growth, creating jobs, and facilitating international trade and tourism.
- With the help of this project we can reduce the aviation accident.

6.CONCLUSION

1. Hence in this project we try to find a way to reduce the aviation accident in future
2. With the help of Data visualizations we have analyse the sum of accidents types in comparing abroad vs fatalities vs ground and the number of accidents based on years, maximum accidents happened in 1972 based on months , highest number of accident happened by operators, top 10 locations which had more accident, top 3 flights which have maximum accident history and the accidents based on regions.

7.FUTURE SCOPE

1. Reducing the lift – to – drag ratio of an aircraft can make it more aerodynamically efficient and help reduce the aircrafts weight and fuel use.

2. The Enhanced ground proximity warning system (EGPWS) is a cutting – edge technology that helps to improve the safety of aircraft by alerting pilots of potential hazards such as approaching terrain or obstacles.

3. Hydrogen – A longer term reality for larger aircraft

4. For larger commercial aircraft and smaller longer range jets, hydrogen power likely offers more potential.

Hydrogen can be used directly as an engine fuel or as part of a fuel cell to produce electricity for engine power.