1 INTRODUCTION

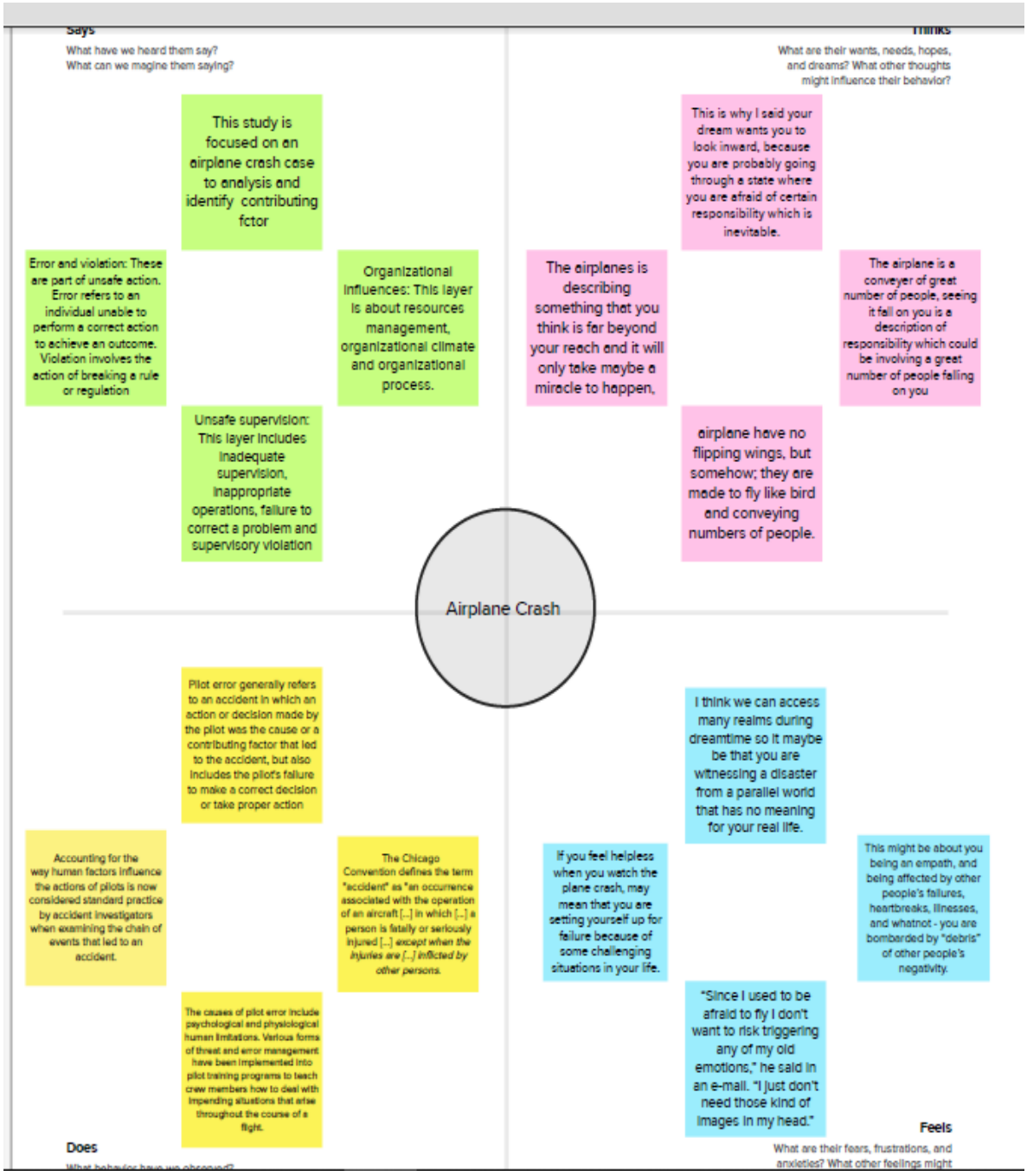
Air accident is caused due to pilot error, mechanical error, bad weather, sabotages or human error. these error can be happened any time. air accident is also called flying mischance. aeronautics misfortunes can happened at any time .flying mischance cases have a Great degree complexity .aircraft crashes cause harm to the population as it may lead to the deaths of people or may even cause Injuries to the people. crash investigation is a major research area and the major techniques used for this investigation are statistics, grid computing, cloud computing, digital image processing and data mining.

1.1 Purpose

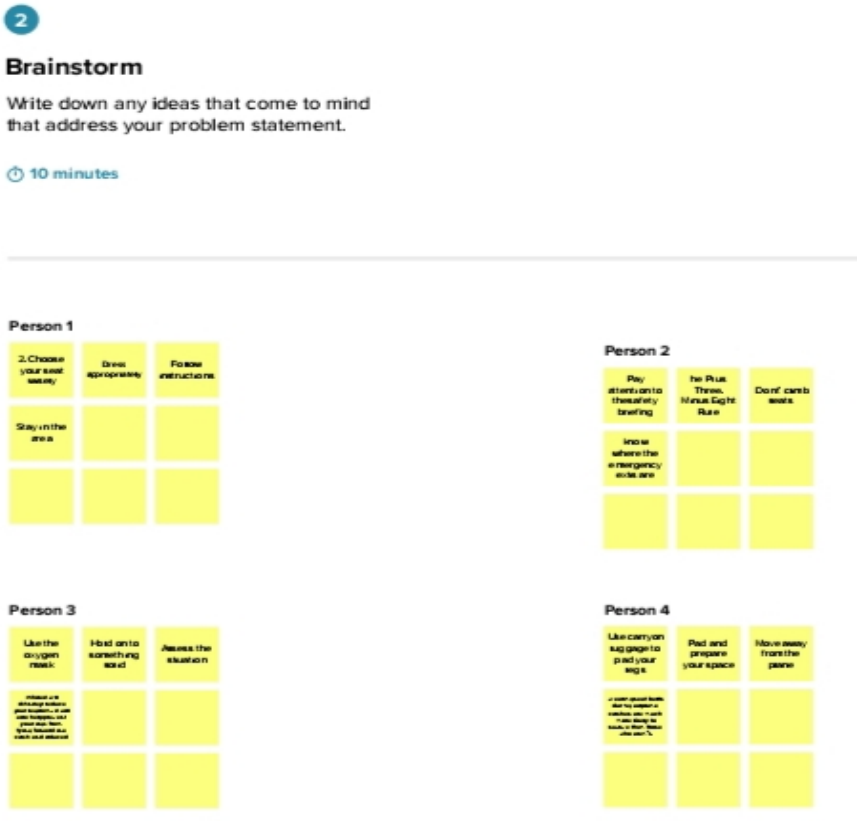
In this project we have analyzed the various aspects of investigation into causes of accidents and incidents, and the resulting safety recommendations, help to prevent such events from re-occuring and thus play an important role in improving aviation safety. The purpose of investigations is to identify the causes of accidents, rather than to assign blame and liability.

1 PROBLEM DEFINITION AND DESIGN THINKING

1.1 Empathy Map



1.2 Ideation and brainstorming map



3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

⏱ 20 minutes

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

Pilots are skilled, highly trained individuals, and their performance is constantly being assessed. Surely they shouldn't make mistakes which result in air crashes.

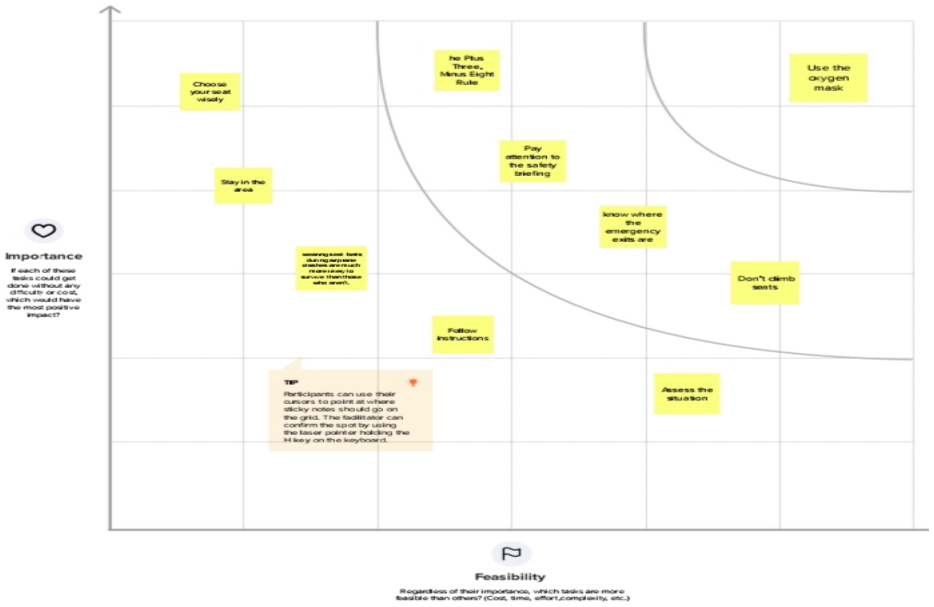
But planes are massive feats of complex engineering, and are made up of hundreds of separate systems and parts. A defect or failure in any one of these can lead to a dangerous situation

4

Prioritize

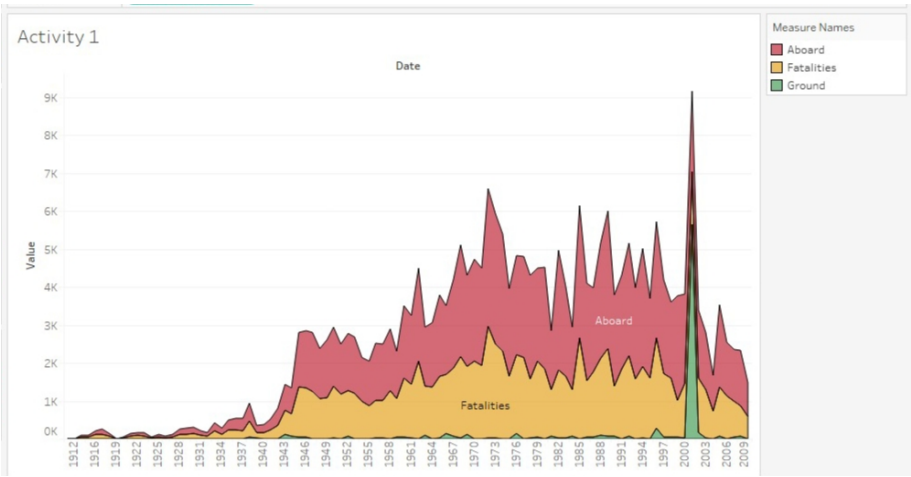
Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

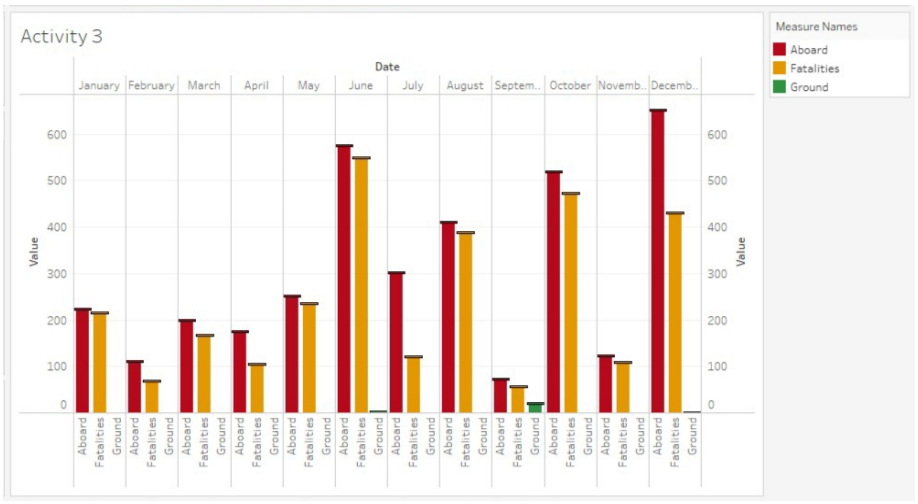
⏱ 20 minutes

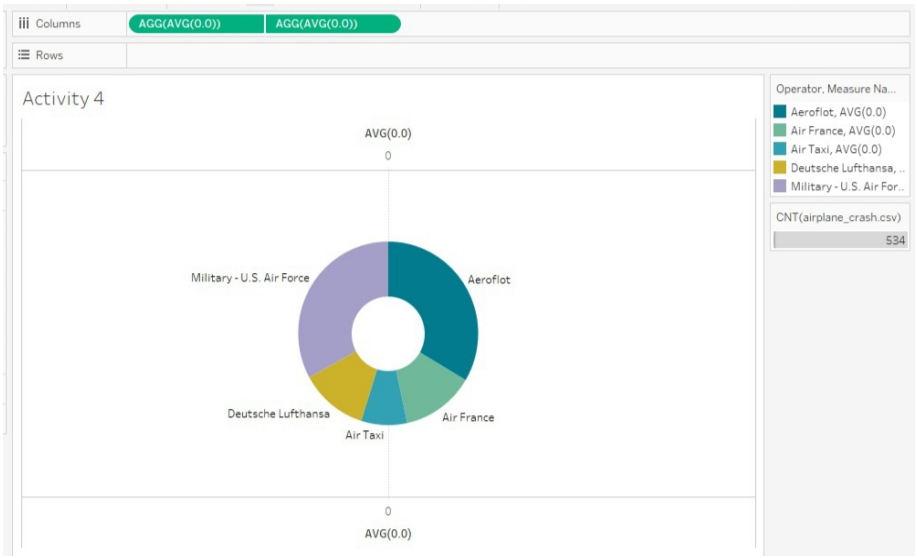


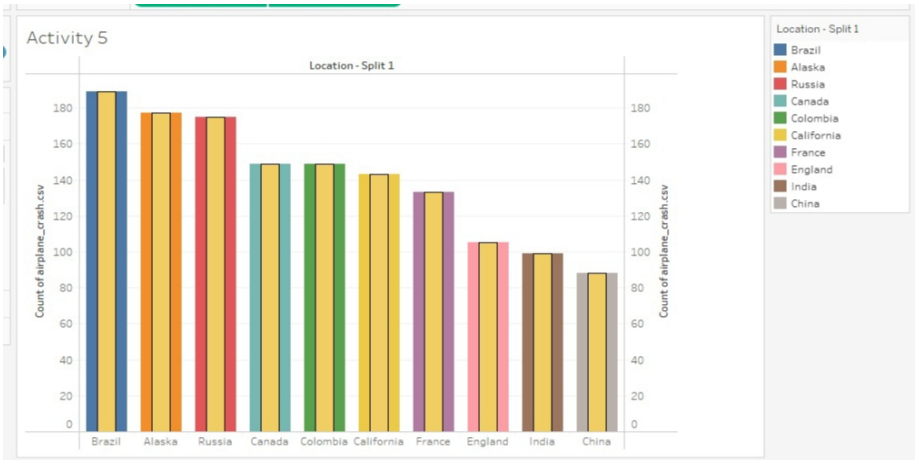
3 RESULT

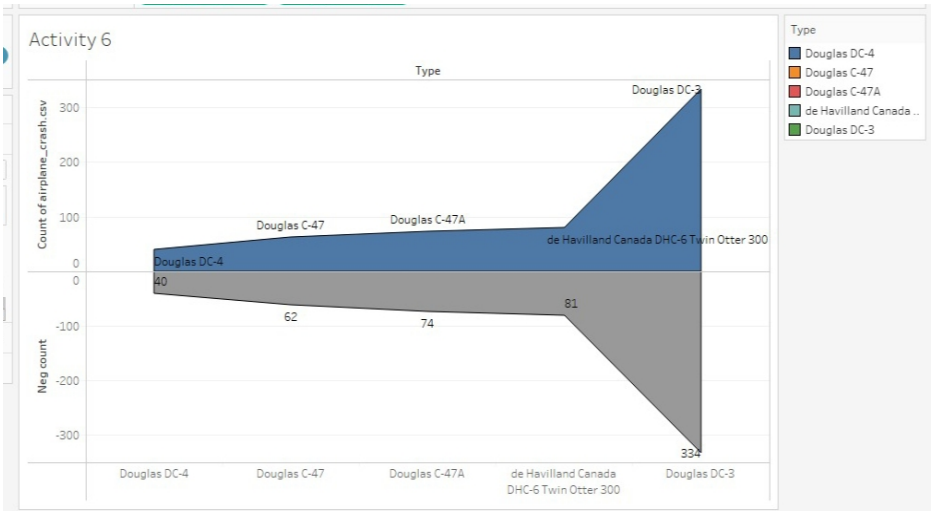
- Comparing Aboard vs Fatalities vs Ground
- Max accidents based on years
- Accident happened in 1972 (MAX ACCIDENTS) based on months
- Highest No. of accidents happened by Operators
- Top 10 locations which had more accidents
- Top 10 flights which have max accidents history
- Accidents based on regions

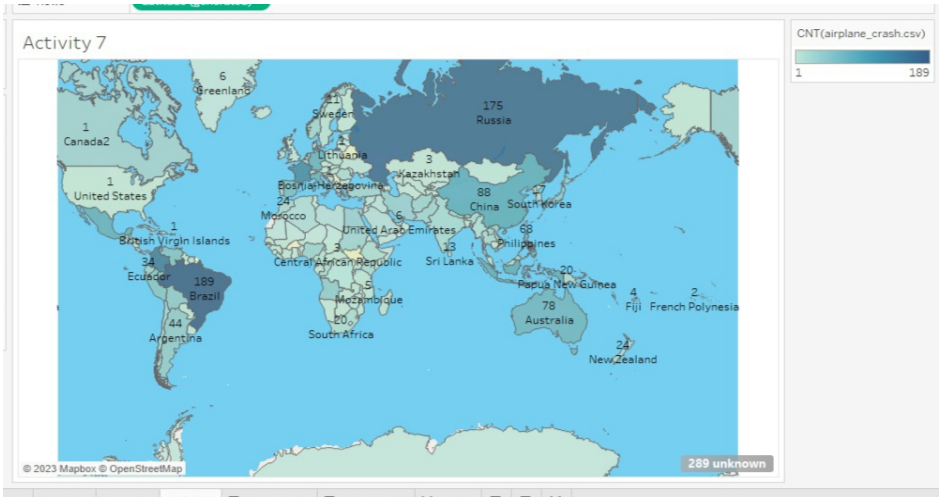



Activity 3
Date
January
February
March
April
May
June
July
August
Septem..
October
Novemb..
Decemb..
Value
Aboard
Fatalities
Ground
Measure Names
Aboard
Fatalities
Ground


Columns
AGG(AVG(0.0))
AGG(AVG(0.0))
Rows
Activity 4
AVG(0.0)
Military - U.S. Air Force
Aeroflot
Deutsche Lufthansa
Air France
Air Taxi
Operator, Measure Na...
Aeroflot, AVG(0.0)
Air France, AVG(0.0)
Air Taxi, AVG(0.0)
Deutsche Lufthansa, ..
Military - U.S. Air For..
CNT(airplane_crash.csv)
534


Activity 5
Location - Split 1
Count of airplane_crash.csv
Brazil
Alaska
Russia
Canada
Colombia
California
France
England
India
China
Location - Split 1





CONCLUSION

Airplane crash analysis is performed to determine the cause of errors once an accident has happened. In the modern aviation industry, it is also used to analyze a database of past accidents in order to prevent an accident from happening. Many models have been used to only for accident investigation but also for educational purpose.