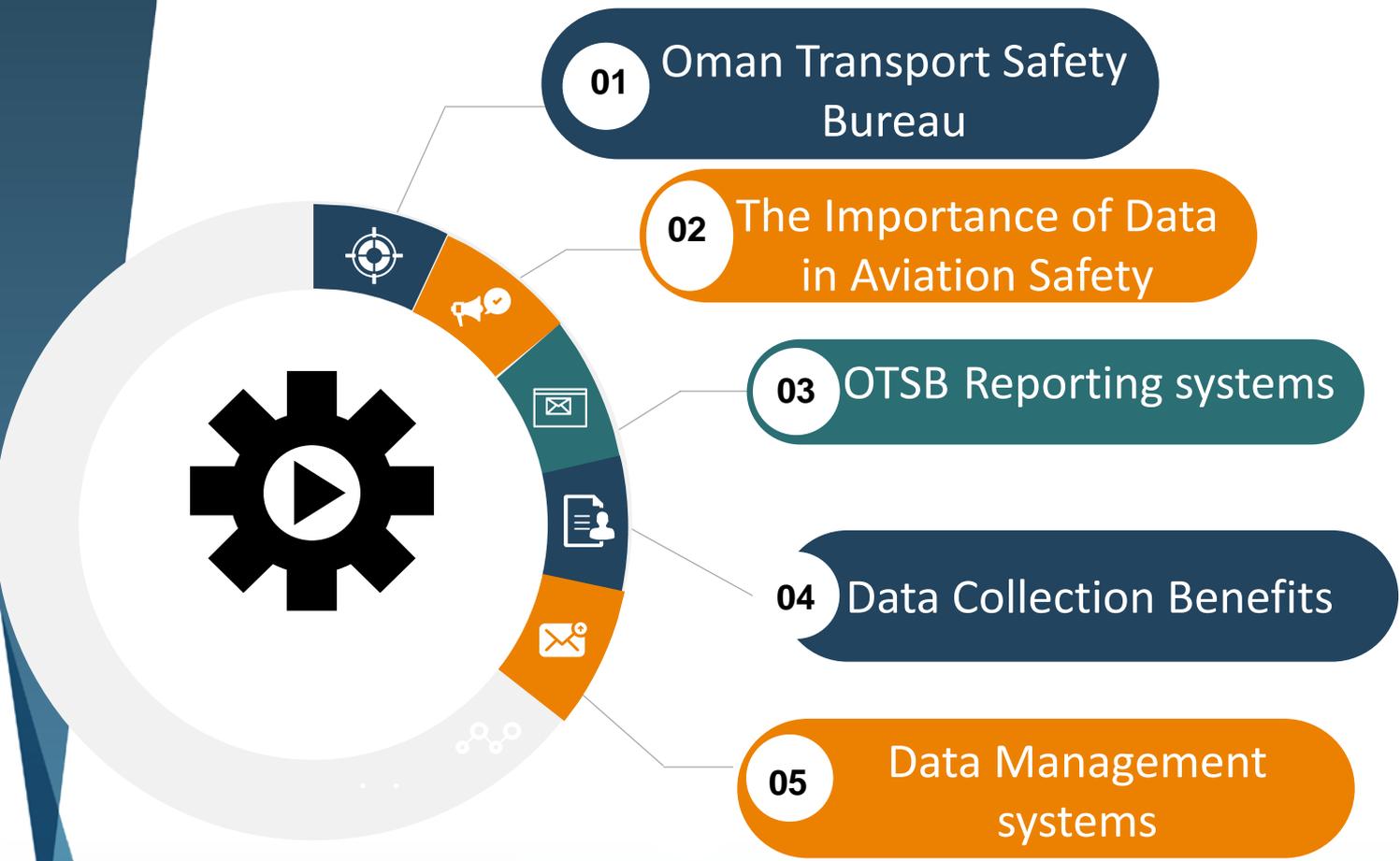


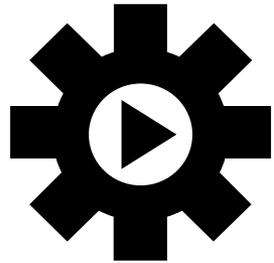


# Accident & Incident Database Establishment





## 01 Oman Transport Safety Bureau



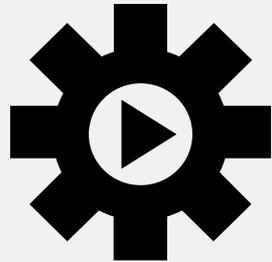
Before 2019, Investigation Department was part of CAA

Aligned with ICAO recommendation – Fully independent

Issues safety recommendation in Aviation and Marine sectors

02

## The Importance of Data in Aviation Safety



lifeblood that drives safety improvements.

Identifying patterns and trends

By analyzing, develop and implement measures to prevent accidents

### Royal Decree 76/2019

An independent administrative unit for aviation accident and incident investigation shall be established

Article  
(46)

### New Proposed Civil Aviation Law - MOR article

على الوحدة إنشاء وتطبيق نظام إبلاغ ملزم لجمع البيانات والمعلومات عن حوادث ووقائع الطيران.

Article  
(48)

### CAR13 – A/C Accident & Incident Manual

OTSB Shall establish and maintain an accident and incident database to facilitate the effective analysis

13.405  
Database  
Systems



03

## OTSB reporting systems

1

Mandatory Reporting System

2

Voluntary Reporting System

03

## OTSB reporting systems



### Mandatory Reporting System

- It's not about attributing blame
- We align our national regulations with ICAO Annex 13 and Annex 19
- CAR 13 titled “Aircraft Accident & Incident Investigation & Reporting Procedures” was developed
- CAR 100 titled “Safety management System” was developed

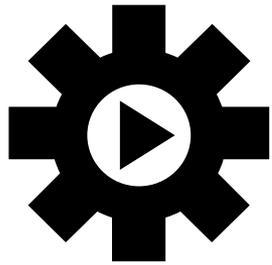
## Occurrence Reporting System

OTSB shall establish a **Mandatory Occurrence Reporting (MOR)** system to facilitate collection of information on actual or potential safety deficiencies, any accident, serious incident or incident within seventy-two (72) hours from the time of occurrence

State shall establish a **voluntary incident reporting system** to facilitate collection of information on actual or potential safety deficiencies that may not be captured by the mandatory occurrence reporting system.

CAR 13 &  
CAR 100  
Database  
Systems

### 03 OTSB reporting systems

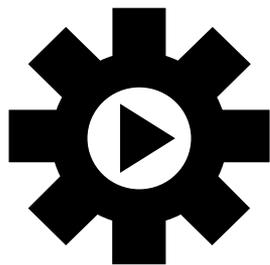


## Mandatory Reporting System

- What are the challenges ?
- Enhancing Compliance and Encouraging Reporting – Just Culture
- The Impact – tangible safety improvement.

03

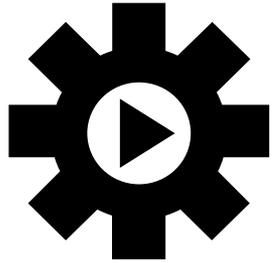
## OTSB reporting systems



### Voluntary Reporting System

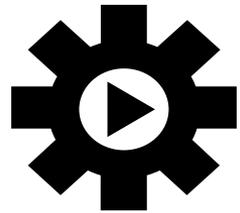
- Captures information beyond what is required by law
- The smallest piece of information can help
- The more safety data we collect, the safer we become in the skies

### 03 OTSB reporting systems



## Voluntary Reporting System

- What are the challenges ?
- Encouraging Reporting – confidential non-punitive.
- Provide feedback – each report is taken seriously
- The Impact on Safety – positive results.



04

## Data Collection Benefits



Pilot Reports



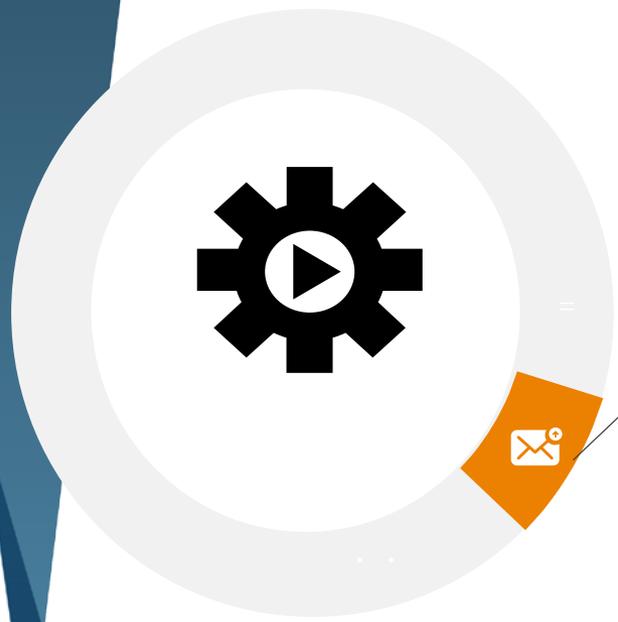
Near-Miss Reports



Air Traffic Control (ATC) Data



Weather Data



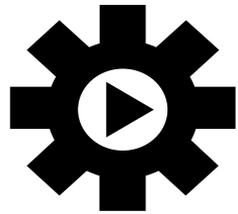
**05** Data Management system



Excel Spreadsheets



Transition to Software



05

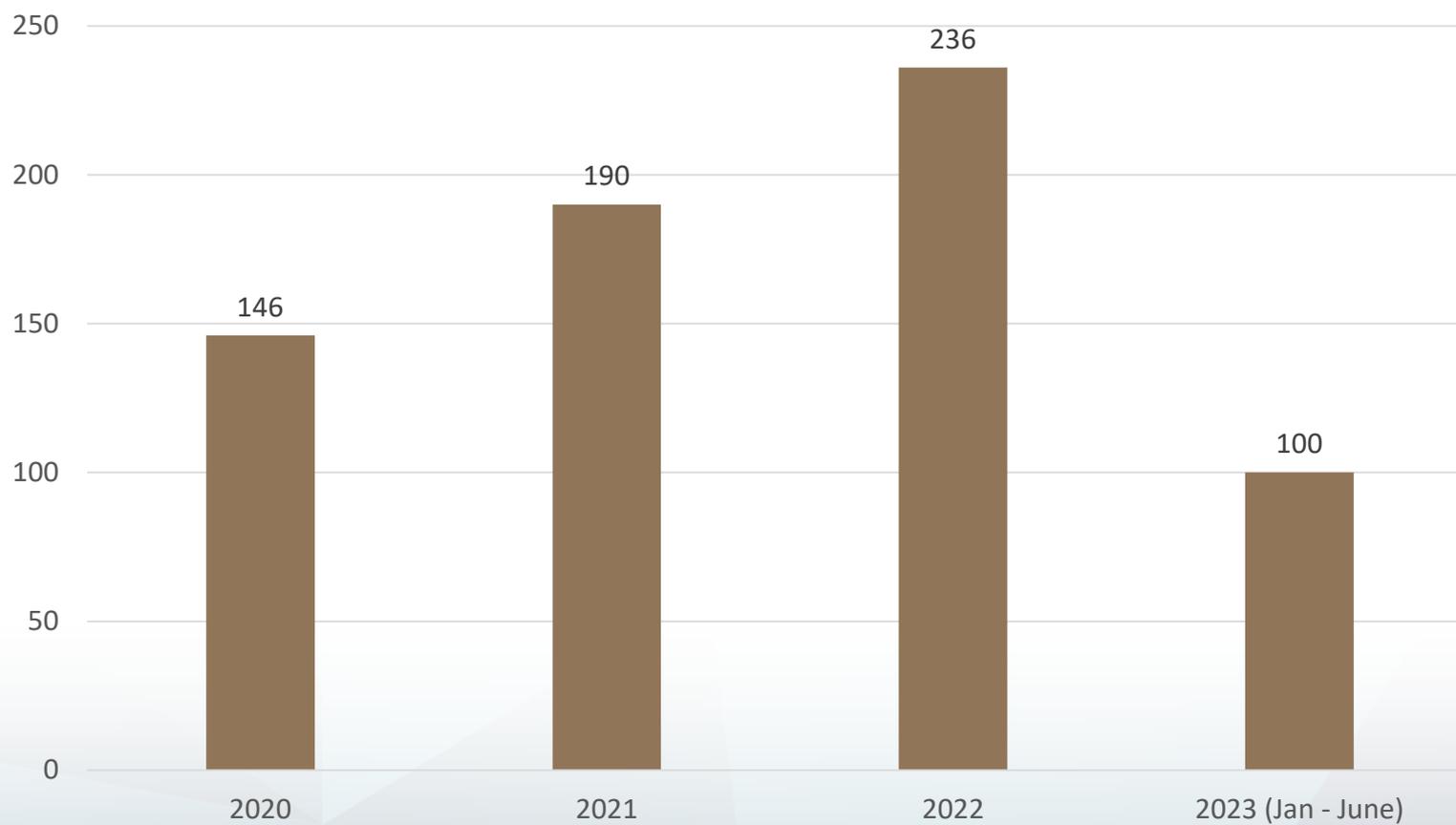
## Data Management and analyze system



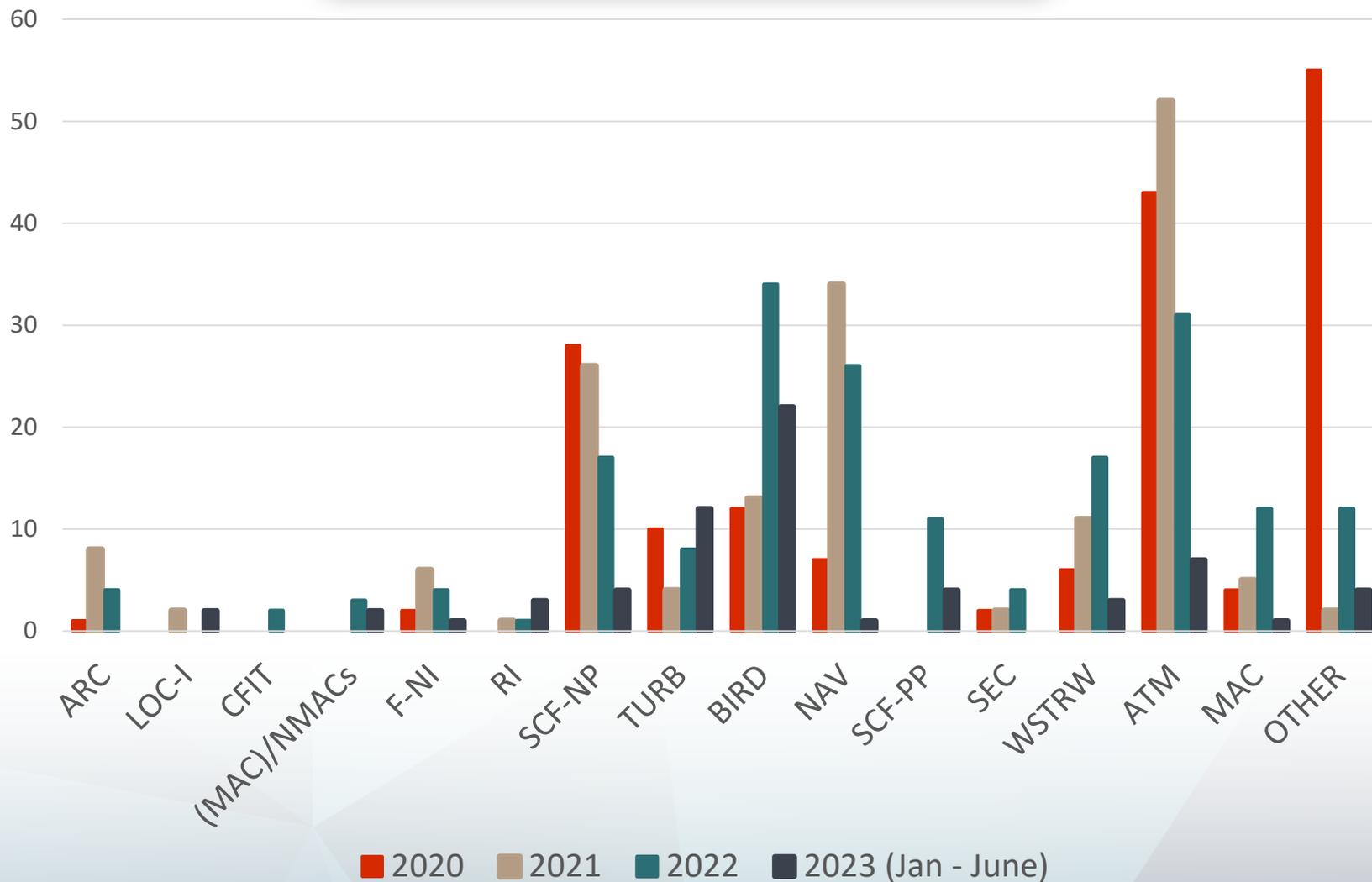
### Excel Spreadsheets

- Data Collection
- Data Management
- Data Analysis
- charting features can be used to visualize trends and patterns

## Number of Incidents From 2020 to 2023

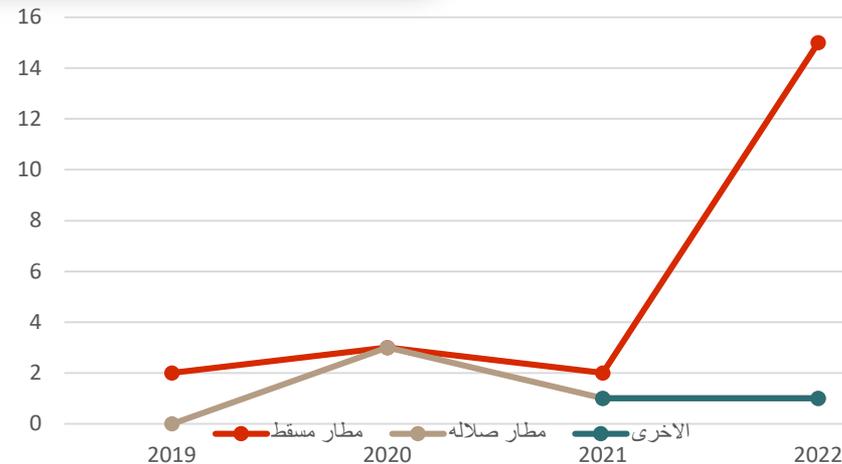
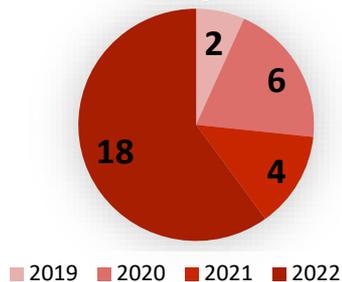


# Number of Incidents Vs Incident Category



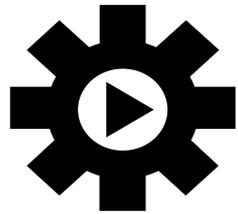
# Bird strikes in Oman

## Number of incident in 4 years- Oman Airports



## 2022





05

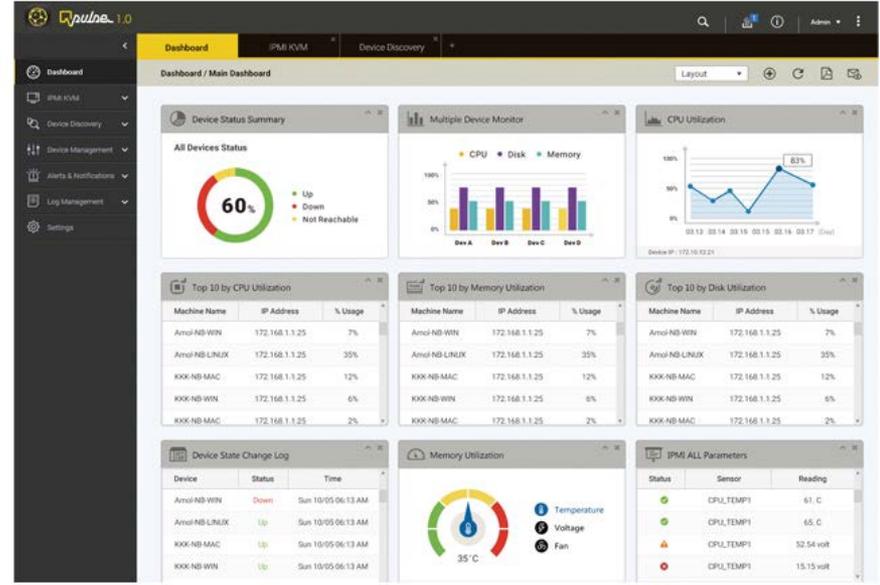
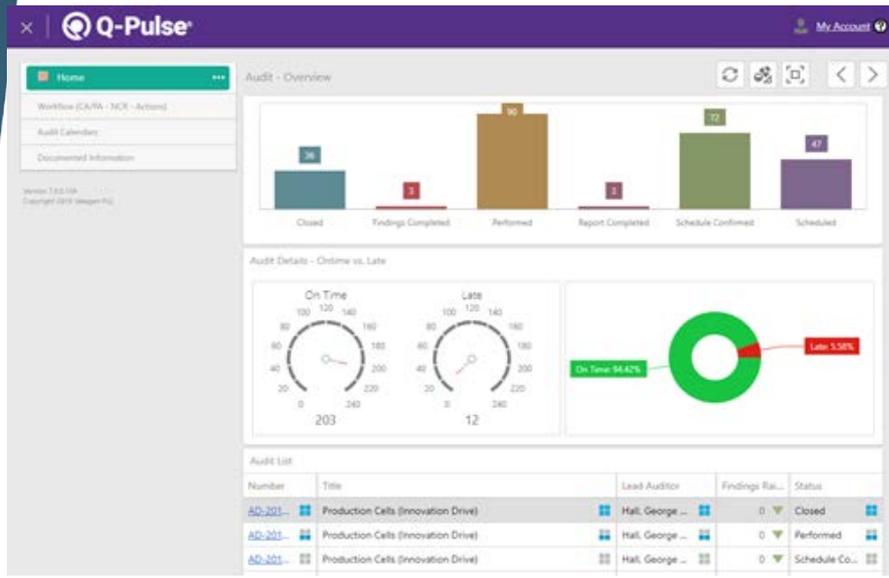
## Data Management and analyze system

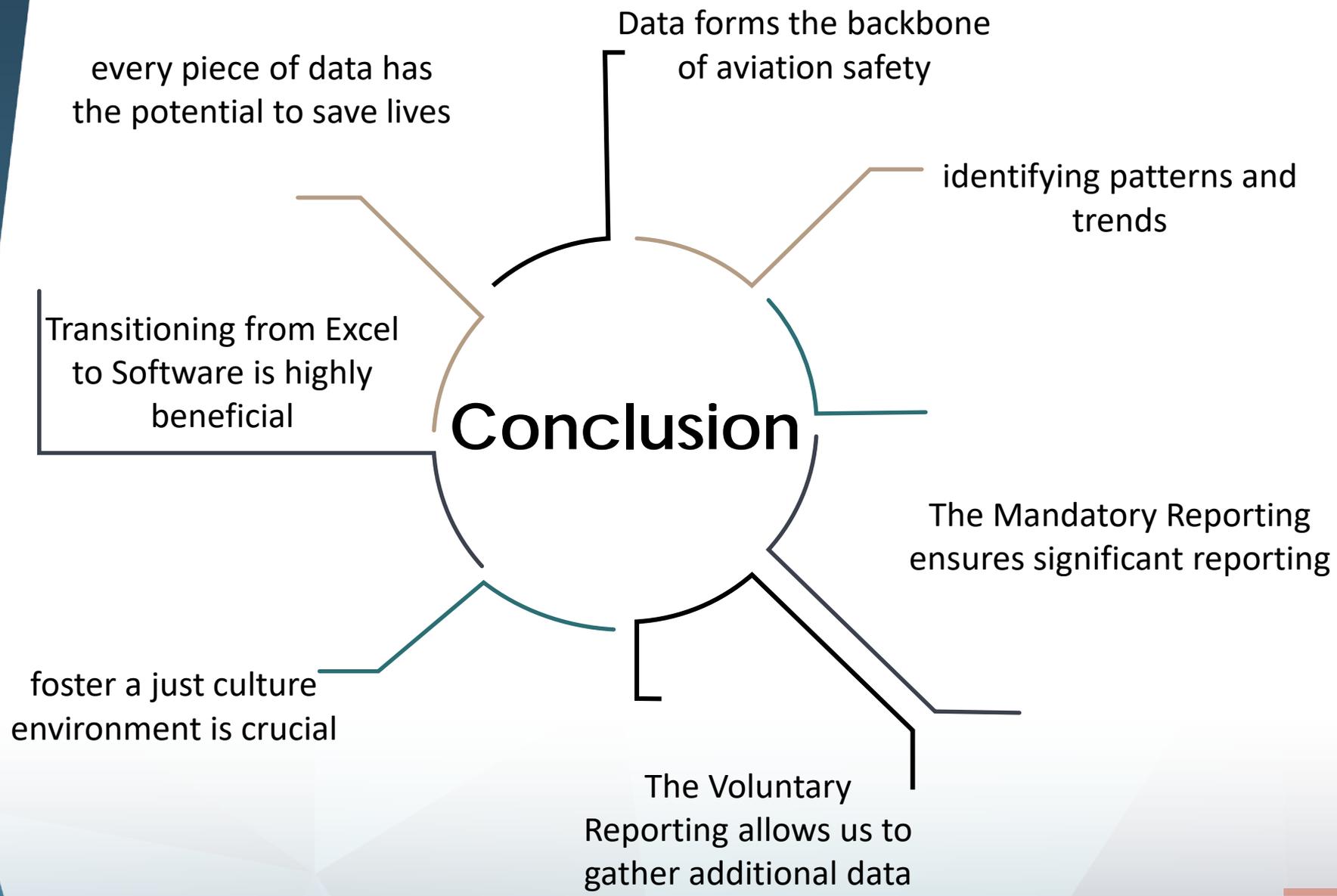


### Transition to Software

- Q-Pulse
- More powerful analytical capabilities
- Integration with SMS
- Reporting & Visualization

# Ideagen Q-pulse Dashboard







Thank you  
&  
Questions

