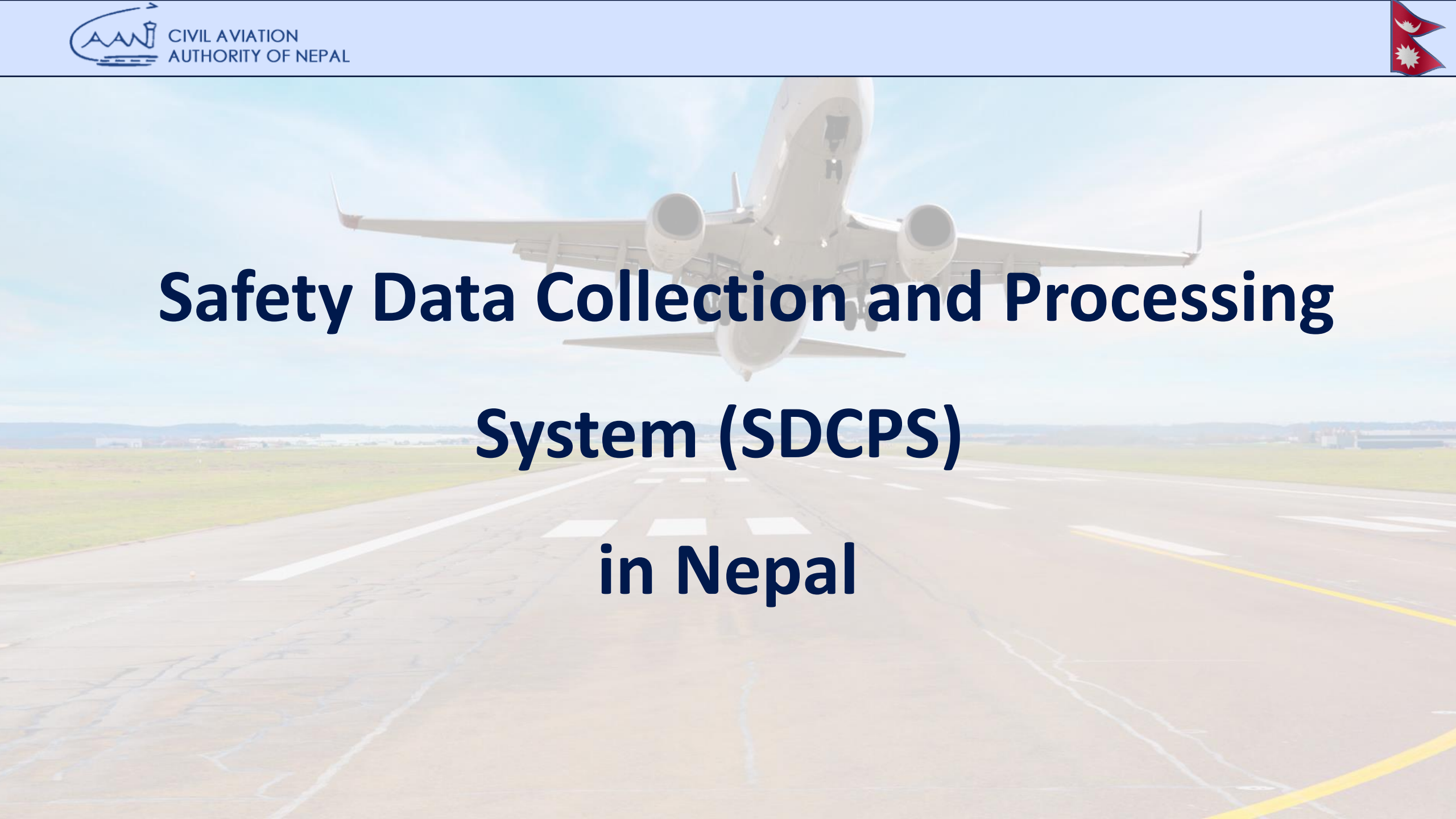




Safety Data Collection and Processing System (SDCPS) in Nepal

**This initiative is for the
safety data management
and informed decision
making at the State level**



Civil Aviation Authority of Nepal

Welcome to State Safety Data Collection And Processing System (SDCPS)

Welcome back, please login to your account.

LOGIN



VIRS

CIVIL AVIATION AUTHORITY OF NEPAL

WELCOME TO STATE SAFETY DATA COLLECTION AND PROCESSING SYSTEM SDCPS has been developed by CAAN to facilitate the collection, sharing and analysis of state safety data and information.

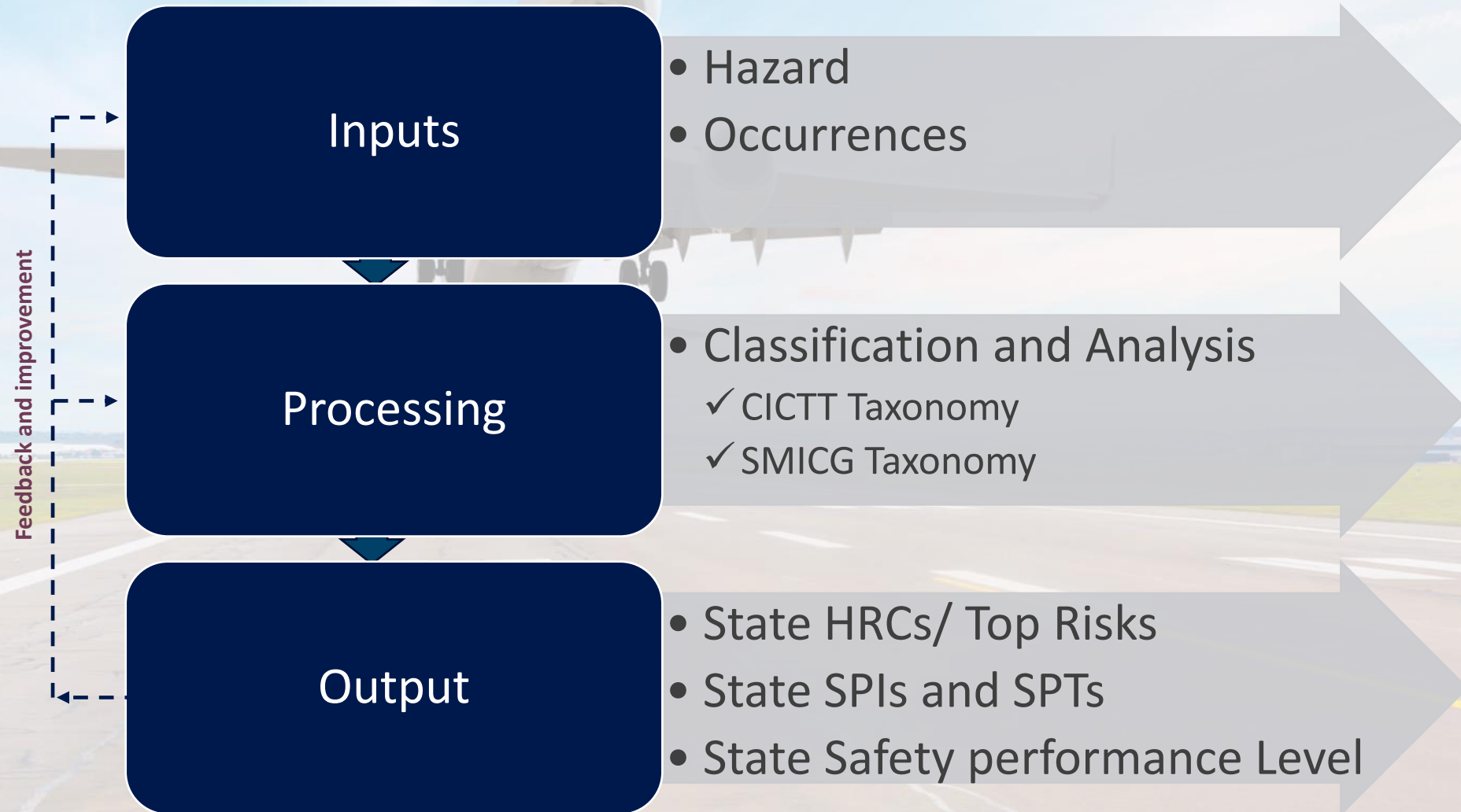
A variety of strategies and standards have been employed to collect quality data, perform analysis, and ensure safety stakeholders can access the data and the information.

CAAN expects that the developed system improves the timeliness, accuracy, uniformity, completeness, integration, and accessibility of safety data.

Unauthorised disclosure of any sensitive information under this system may constitute an offence under state's safety data protection and confidentiality provision, however CAAN recommends the users to exchange the relevant data between the stakeholders, but only for the purpose of maintaining or improving safety.

©Safety Management Division, ASSRD

How the tool works as a system



**Where the
reports come from -
the Stakeholders**

**Air
operators**

- Aeroplane operators
- Helicopter operators

**Aerodrome
operators**

- Certified aerodromes
- Non – certified aerodromes

**ANS
Providers**

- ATS providers
- other associated entities

Others

- Other aviation stakeholders
- General public

How the Report are collected

**Occurrence
Reporting**

**Hazard
Reporting**

Admin panel

Safety Management Division

Main Menu

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Dashboard

4 Accident Statistics

2 Air Traffic Movement

Hazard

Select Year: 2024

#	Hazard Priority	Total	Operator Wise	Probable Taxonomy Wise
1	Low Hazard	274	NAC: 93 PH: 39 AA: 33	RAMP - 144 OTHR - 84 SCF-NP - 58
2	Medium Hazard	178	NAC: 66 AA: 24 HE: 23	RAMP - 62 OTHR - 47 SCF-NP - 44
3	High Hazard	35	SA: 13 HE: 12 AA: 5	CTOL - 13 ADHM - 7 SCF-NP - 4

Hazard Categories

Hazard Taxonomy

Probable Occurrence Taxonomy

Month

How reports are analysed?

1. Hazard

Priority

High
Medium
Low

Taxonomy

*CICTT
Hazard
Taxonomy

Probable
Occurrence

CICTT
occurrence
Taxonomy

Future Risks

2. Occurrences

Nature/Severity

Accident
Serious incident
incident

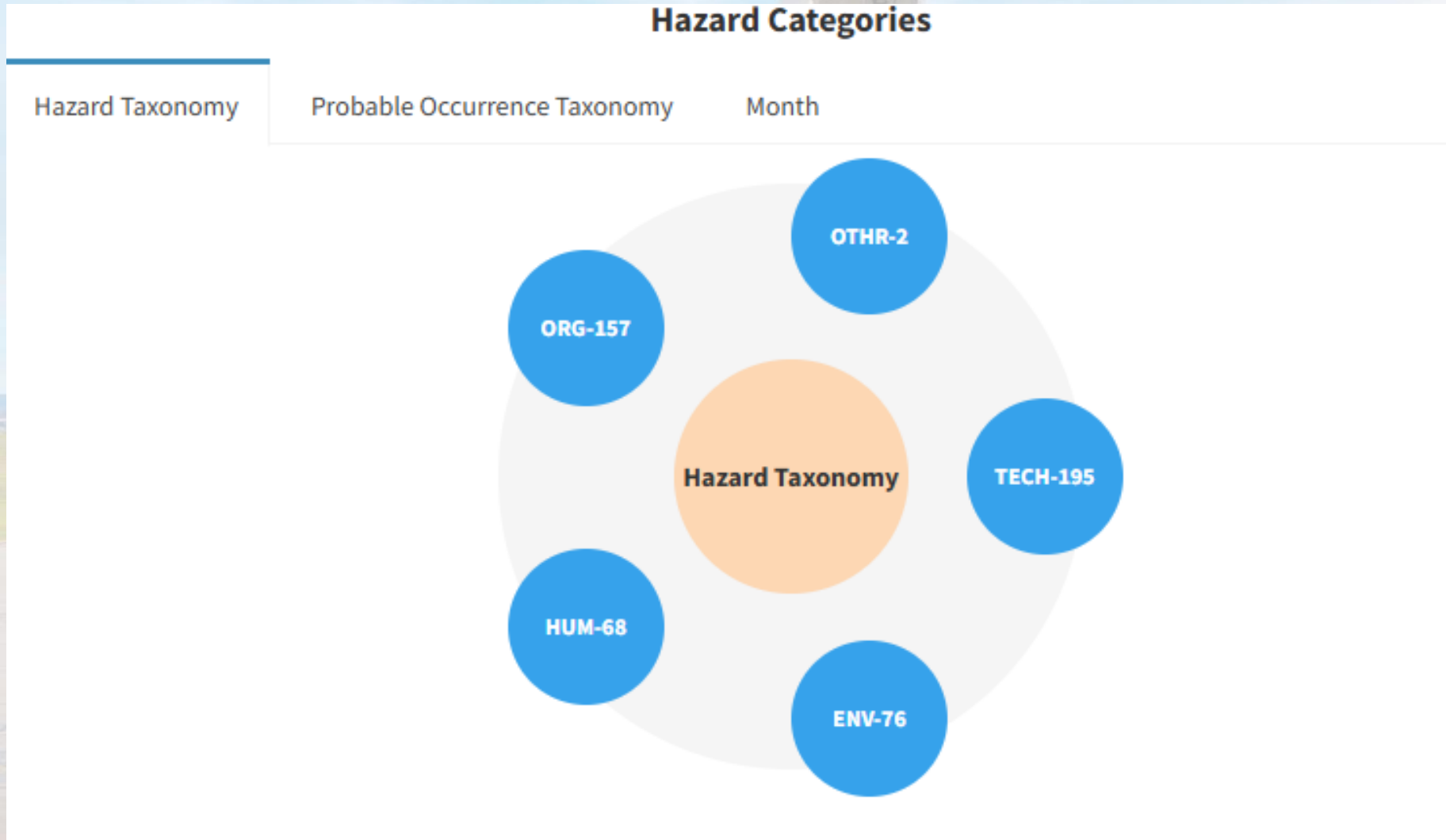
Taxonomy

CICTT Occurrence
Taxonomy

Current Risks

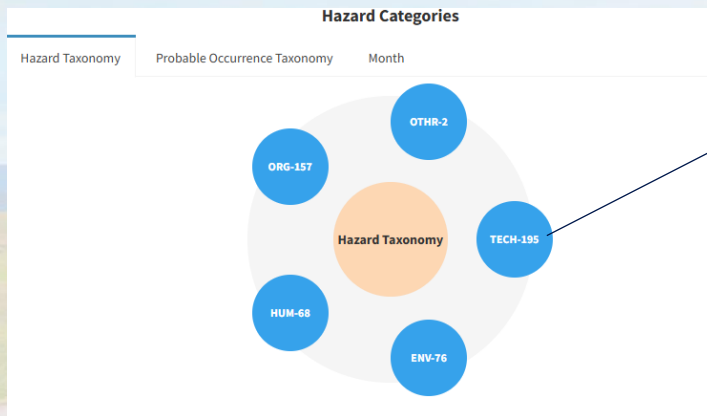
What outputs are generated?

Hazard Classification

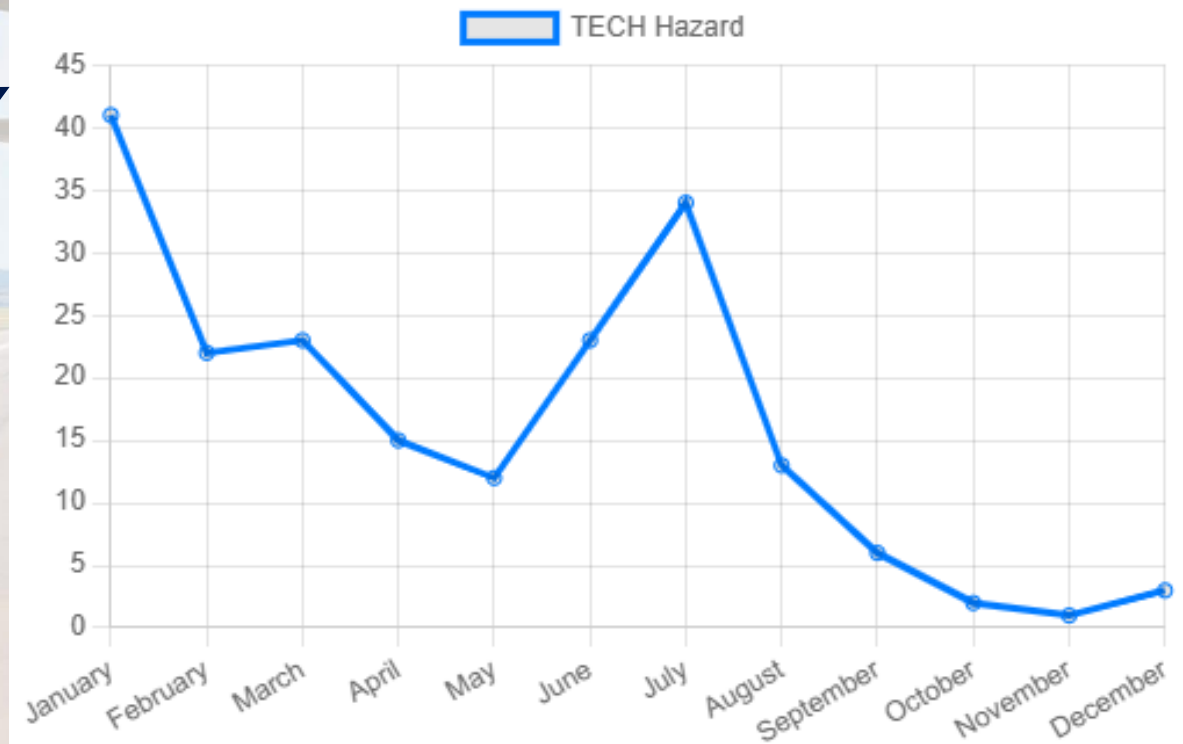


What outputs are generated?

Month wise- ENVT



Hazard Category(Line-Chart)



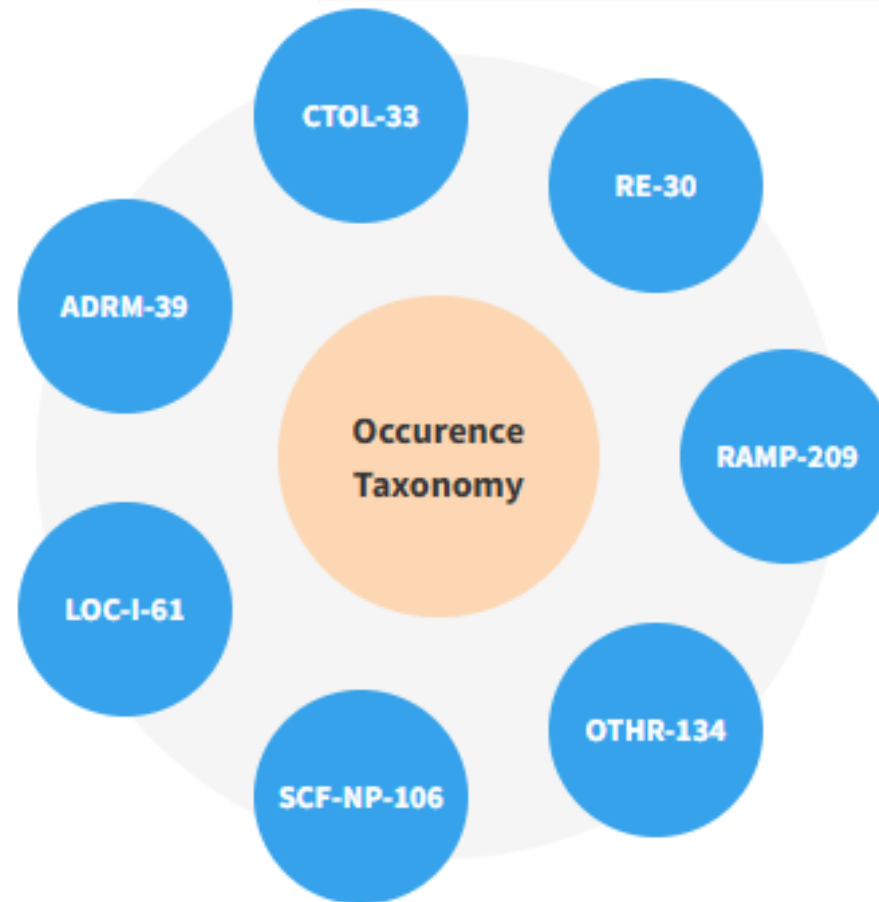
Hazard Categories

Hazard Taxonomy

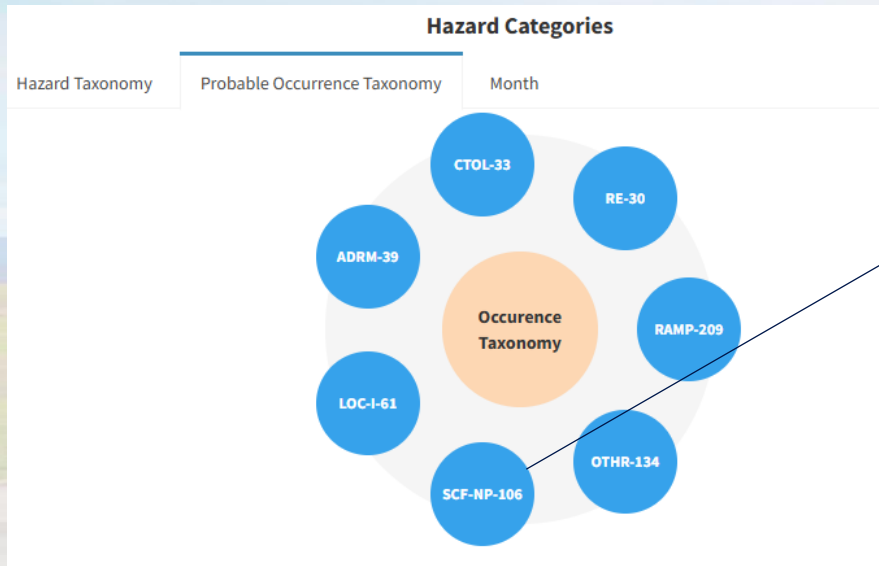
Probable Occurrence Taxonomy

Month

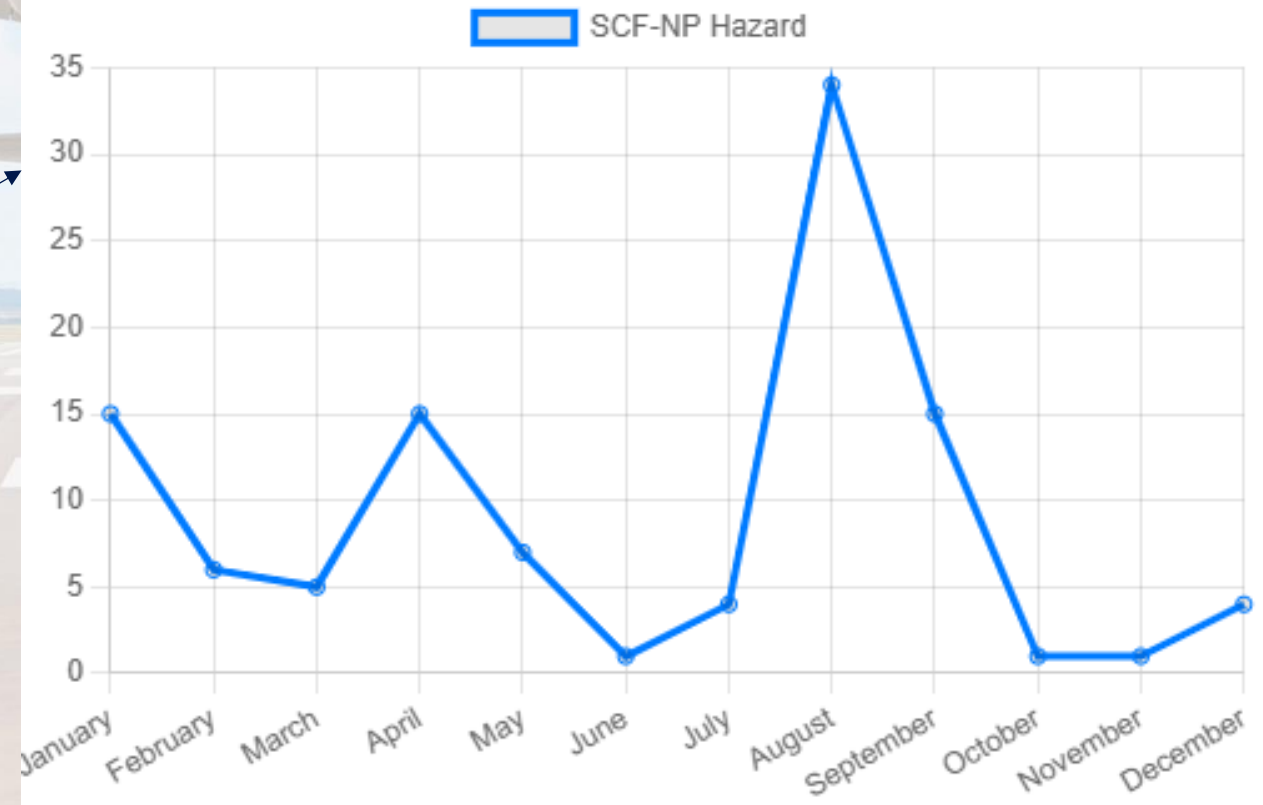
Area of Risk



Area of Risk- SCF-NP



Hazard Category(Line-Chart)



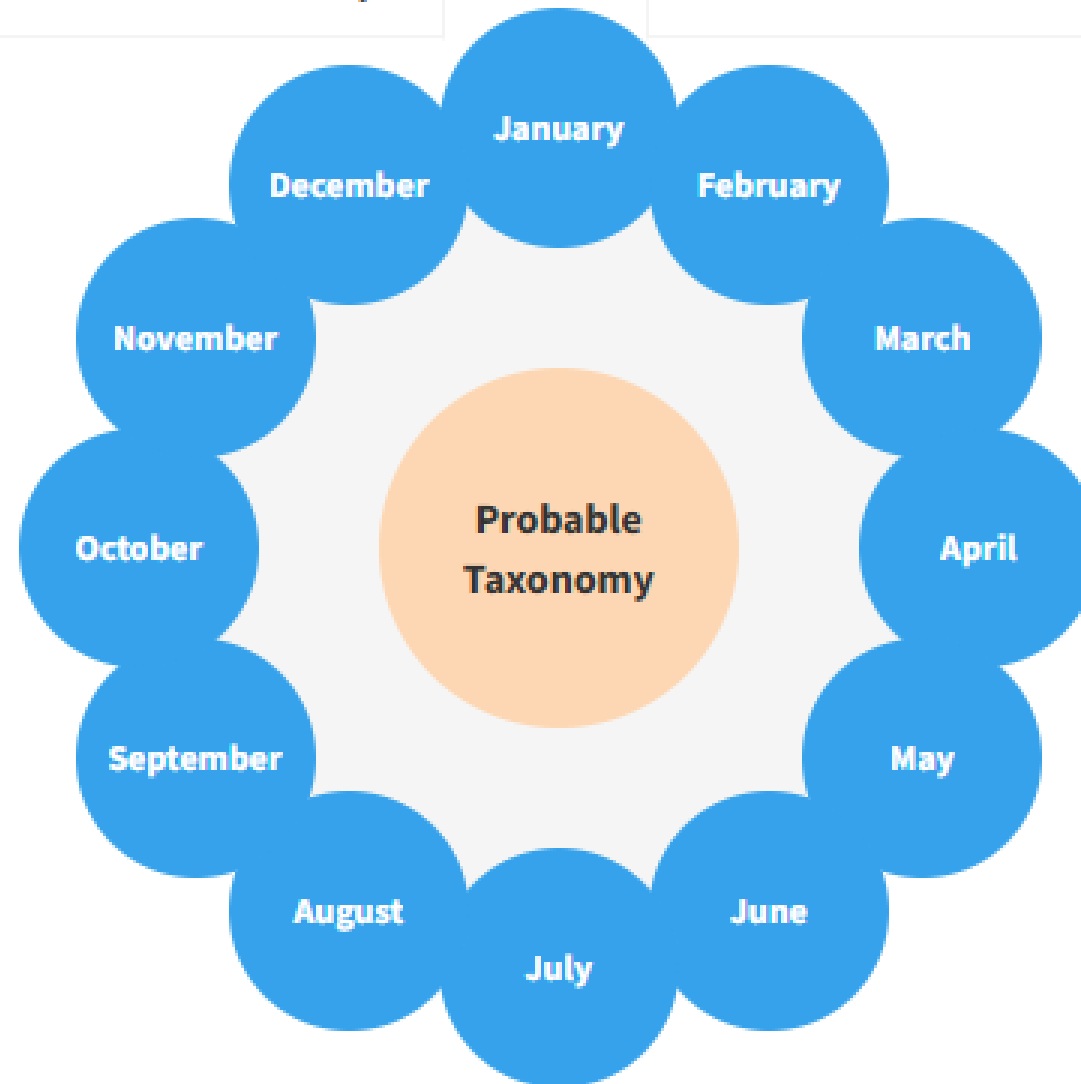
Hazard Categories

Hazard Taxonomy

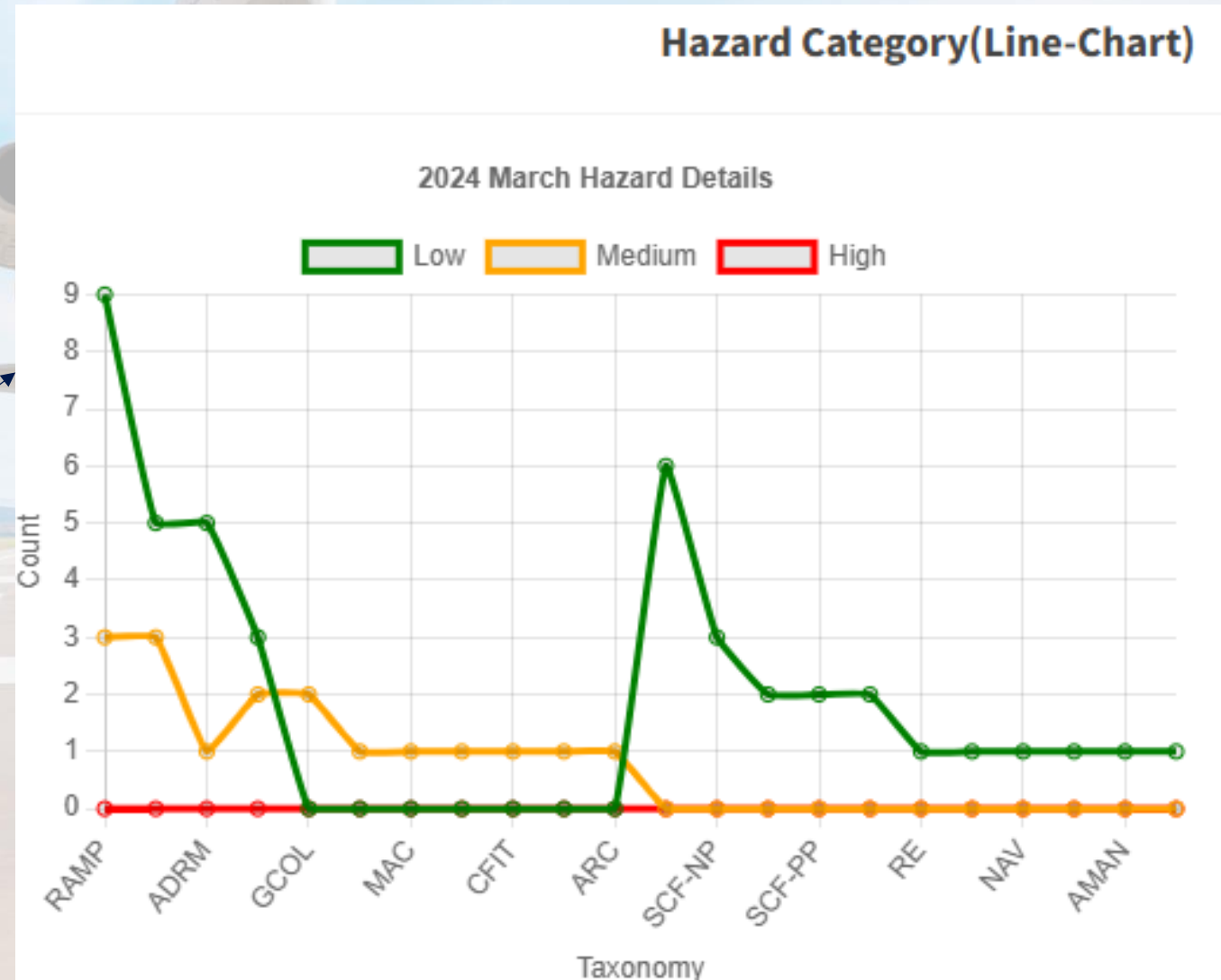
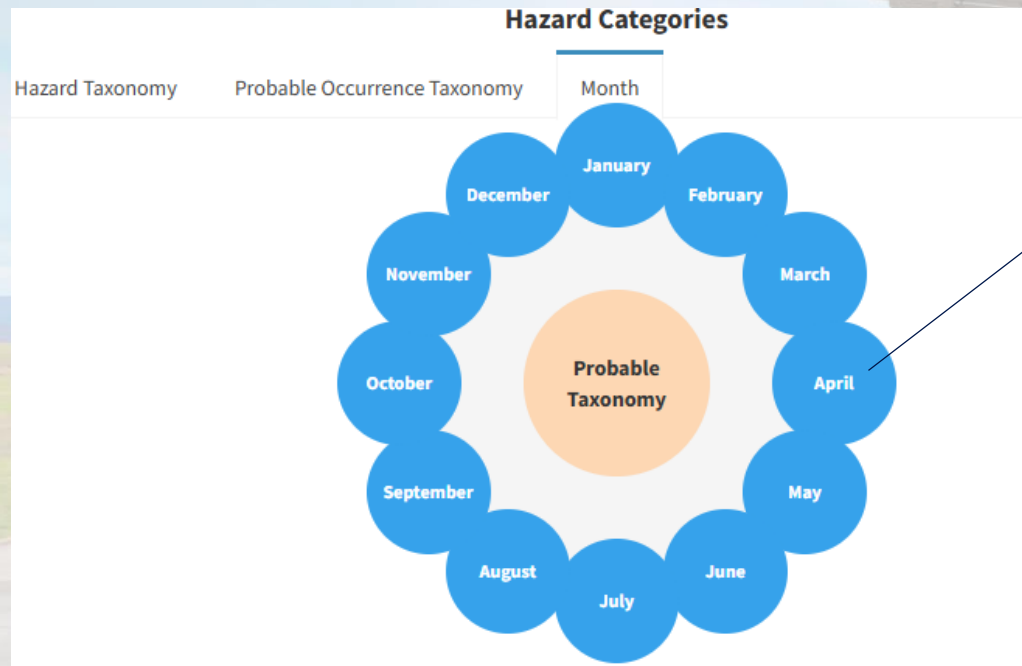
Probable Occurrence Taxonomy

Month

Hazard per month



Hazard per month- April



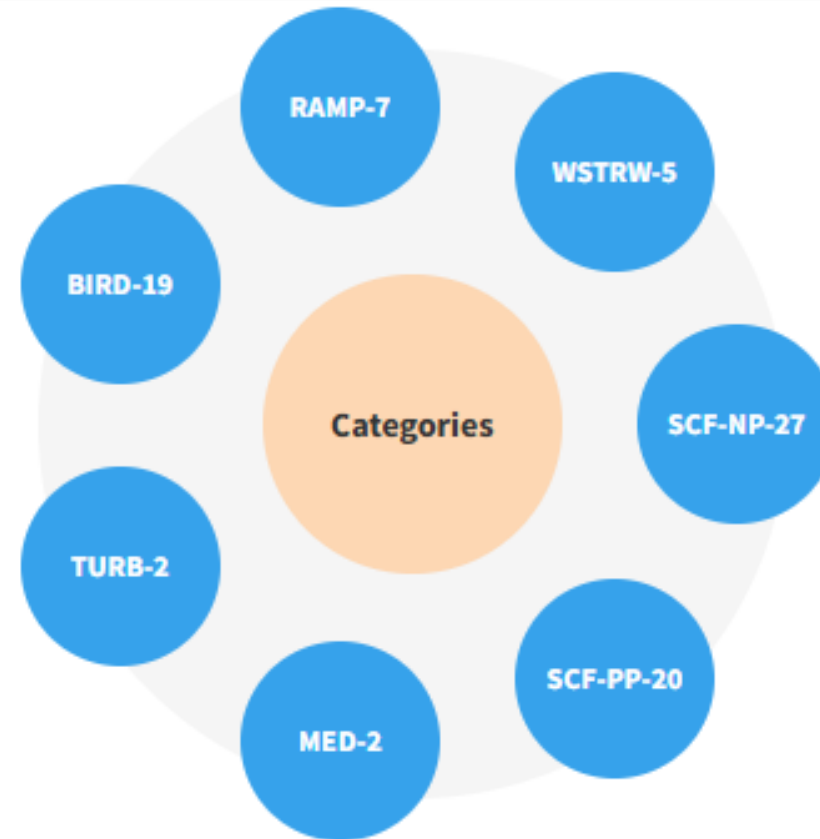
Occurrence classification- Category

Occurrence Categories

Category

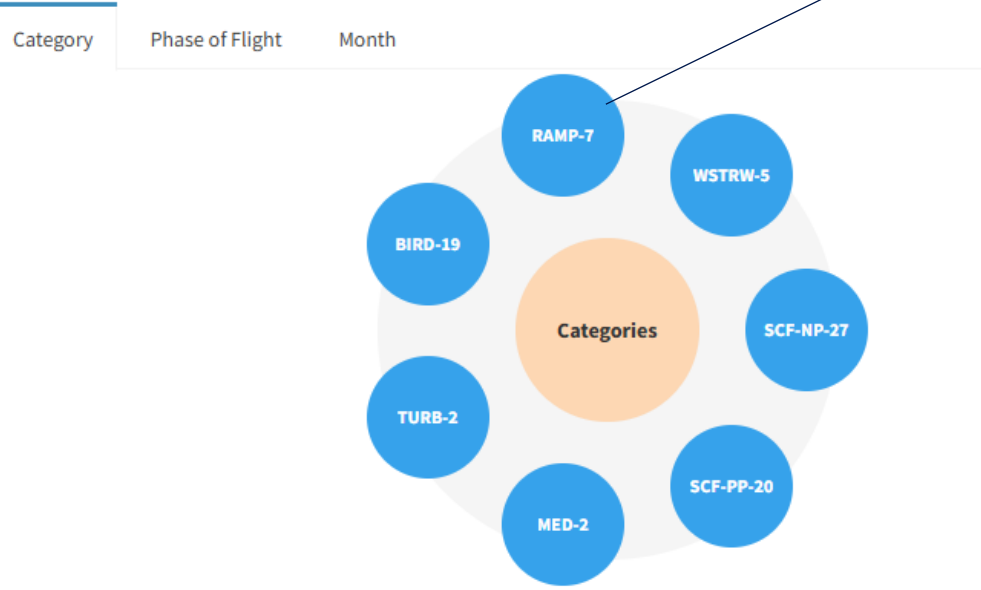
Phase of Flight

Month

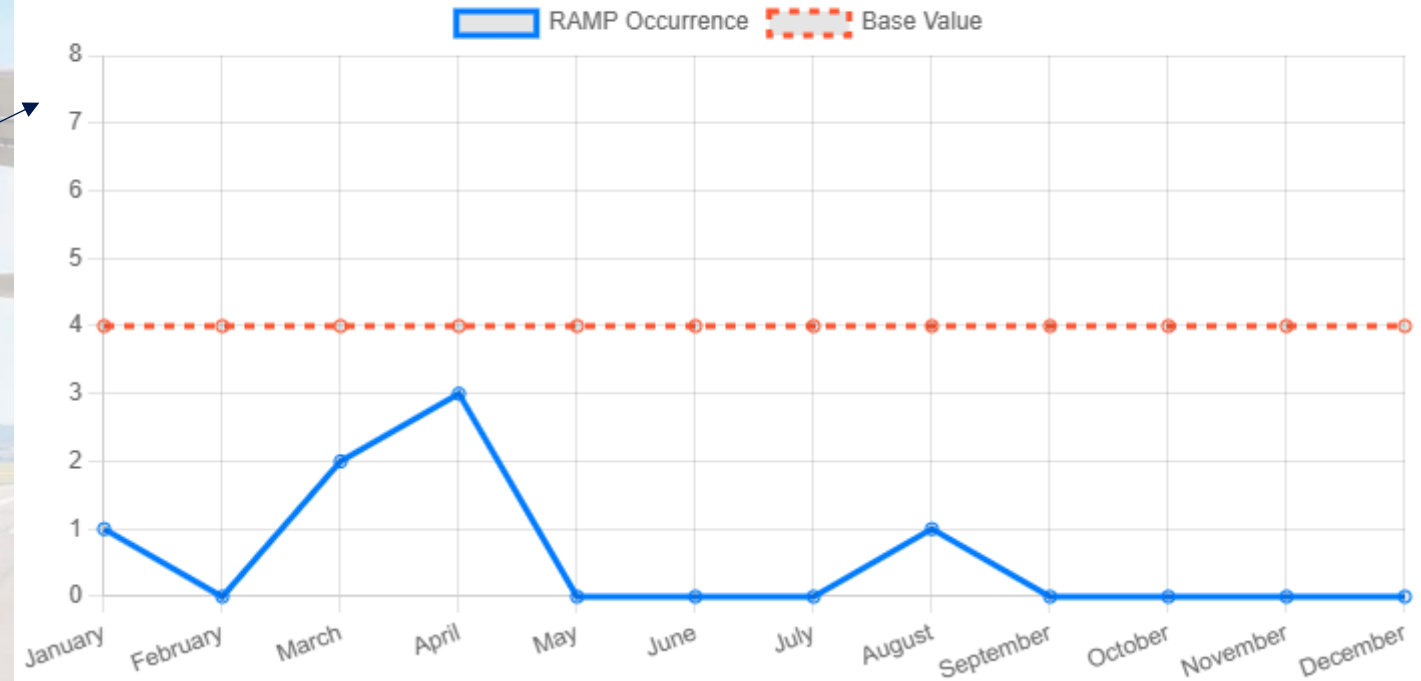


Occurrence classification- Category

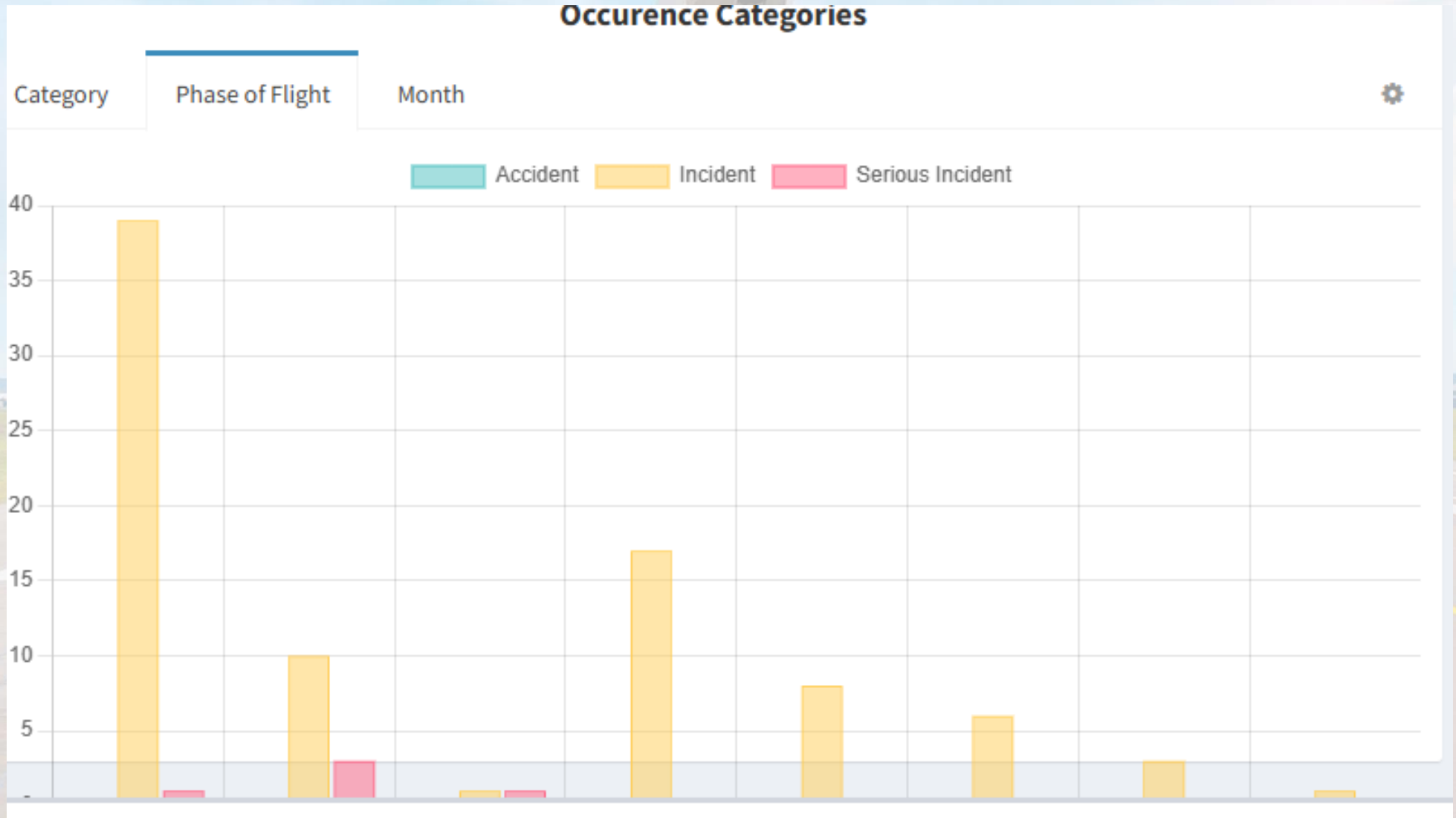
Occurrence Categories



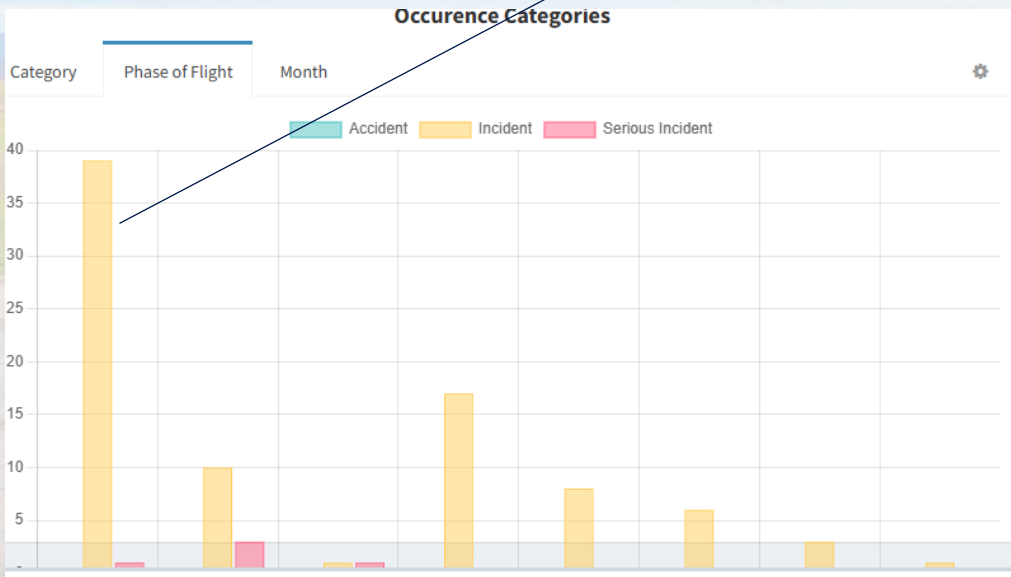
Occurrence Category(Line-Chart)



Occurrence- Phase wise



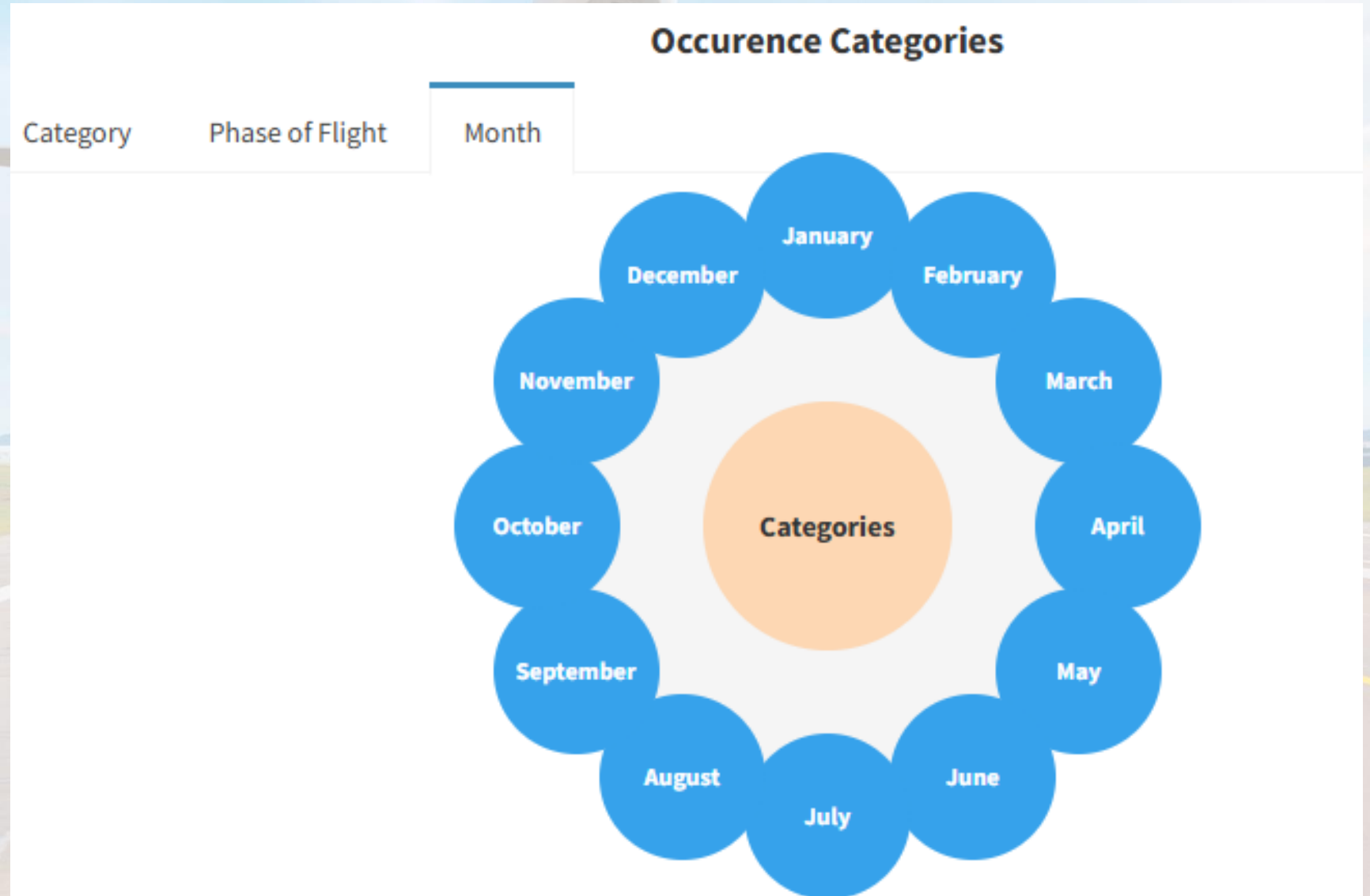
Occurrence- Phase wise



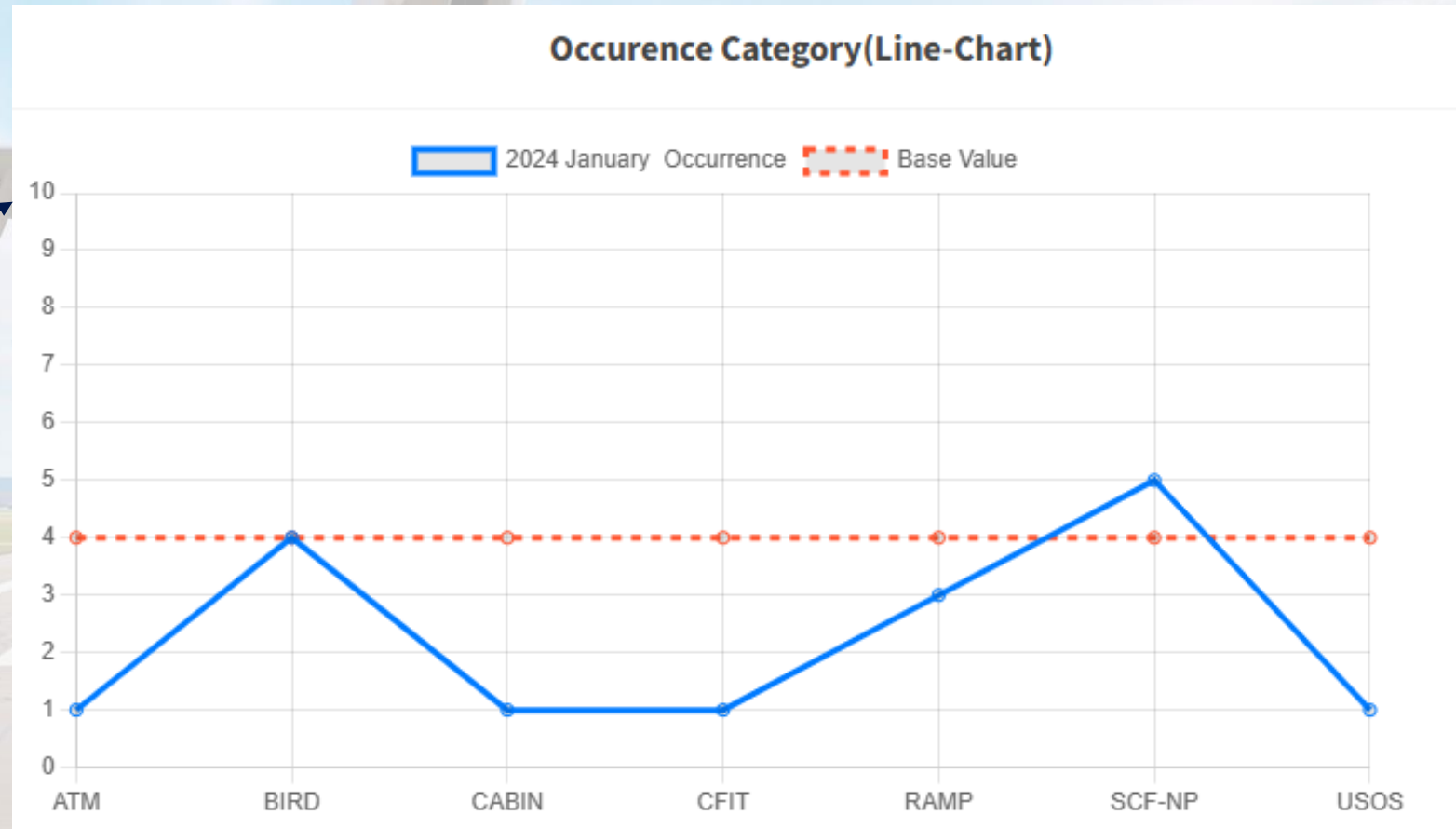
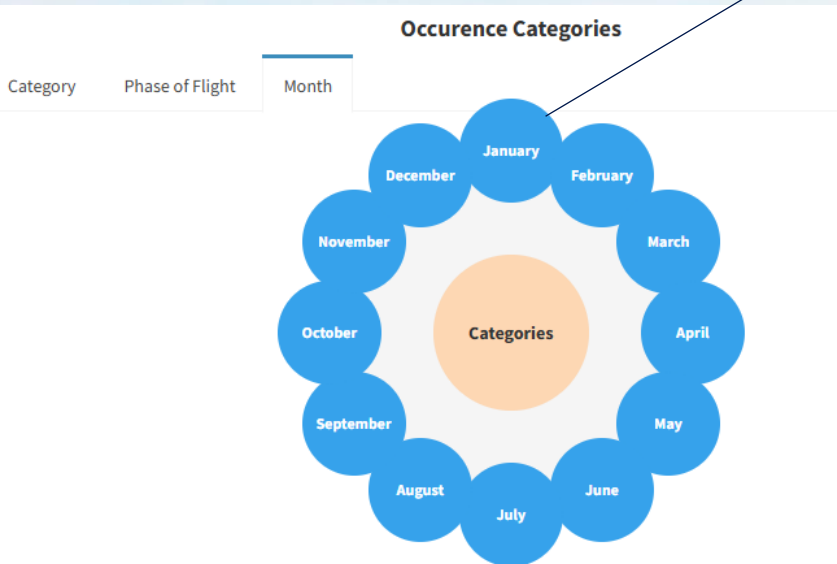
Occurrence Category(Line-Chart)



Occurrence- Month wise



Occurrence- Month wise-



Other Safety management initiatives

1.

Accident Statistics and
investigation
recommendation tracking

Main Menu

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NASP Goal

Accident Statistics

Air Traffic Movement

SPIs and SPTs

State Significant Safety Risk

Safety Reporting in 2022

NASP

State's SPIs and SPTs

State Safety Oversight Info

Others

User Management

VIRS

Reports

Reports

4

Accident Statistics

Details

2

Air Traffic Movement

Details

Hazard

Select Year:

2024

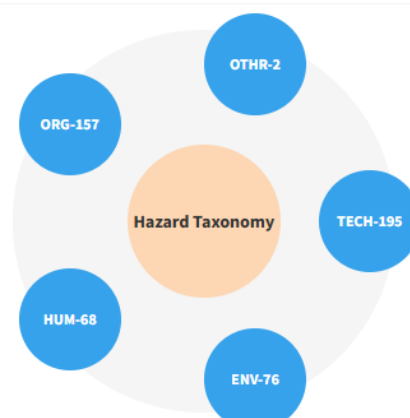
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Hazard Categories

Hazard Taxonomy

Probable Occurrence Taxonomy

Month



Other Safety management initiatives

2.

National Aviation Safety Plans (NASP) and its SEIs and actions tracking

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- NASP Goal**
- Accident Statistics
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- User Management
- VIRS
- Reports
 - Reports

4

Accident Statistics

Details

2

Air Traffic Movement

Details

Hazard

Select Year:

2024

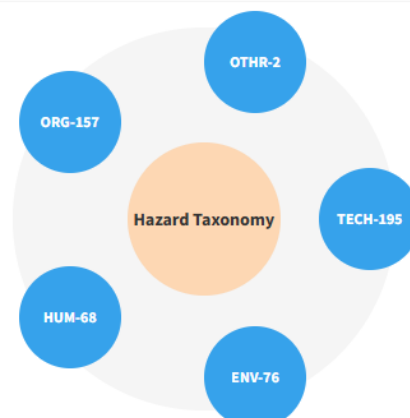
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Hazard Categories

Hazard Taxonomy

Probable Occurrence Taxonomy

Month



Other Safety management initiatives

3.

State Safety oversight (SSO) information

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Air Traffic Movement

SPIs and SPTs

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Air Traffic Movement

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Hazard Categories

Hazard Taxonomy

Probable Occurrence Taxonomy

Month

ORG-157

OTH-2

TECH-195

ENV-76

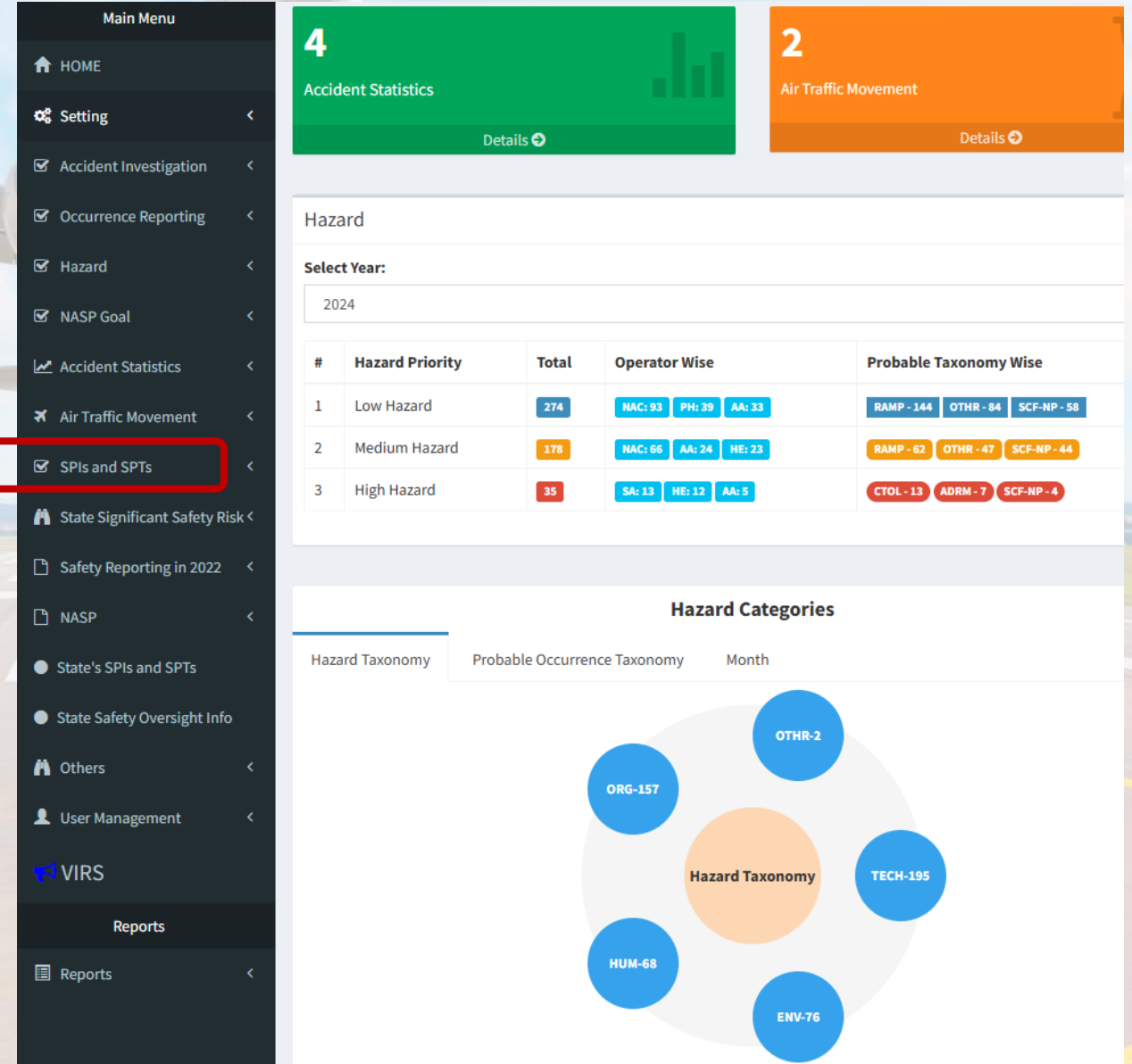
HUM-68

Hazard Taxonomy

Other Safety management initiatives

4.

State Safety Indicators and Targets (SPIs and SPTs)



Other Safety management initiatives

5.

Air Traffic Movement

6.

Reports generation

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Air Traffic Movement

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Hazard

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Hazard Categories

Hazard Taxonomy

Probable Occurrence Taxonomy

Month

ORG-157

HUM-68

ENV-76

TECH-195

OTH-2

Hazard Taxonomy

**Report
Generation
and
Dashboard**

State Level

- Hazard
- Occurrences
- High Risk Areas
- Safety Performance monitoring and Measurement
- State SPIs and SPTs
- Investigation Recommendation status
- NASP's SEIs Status

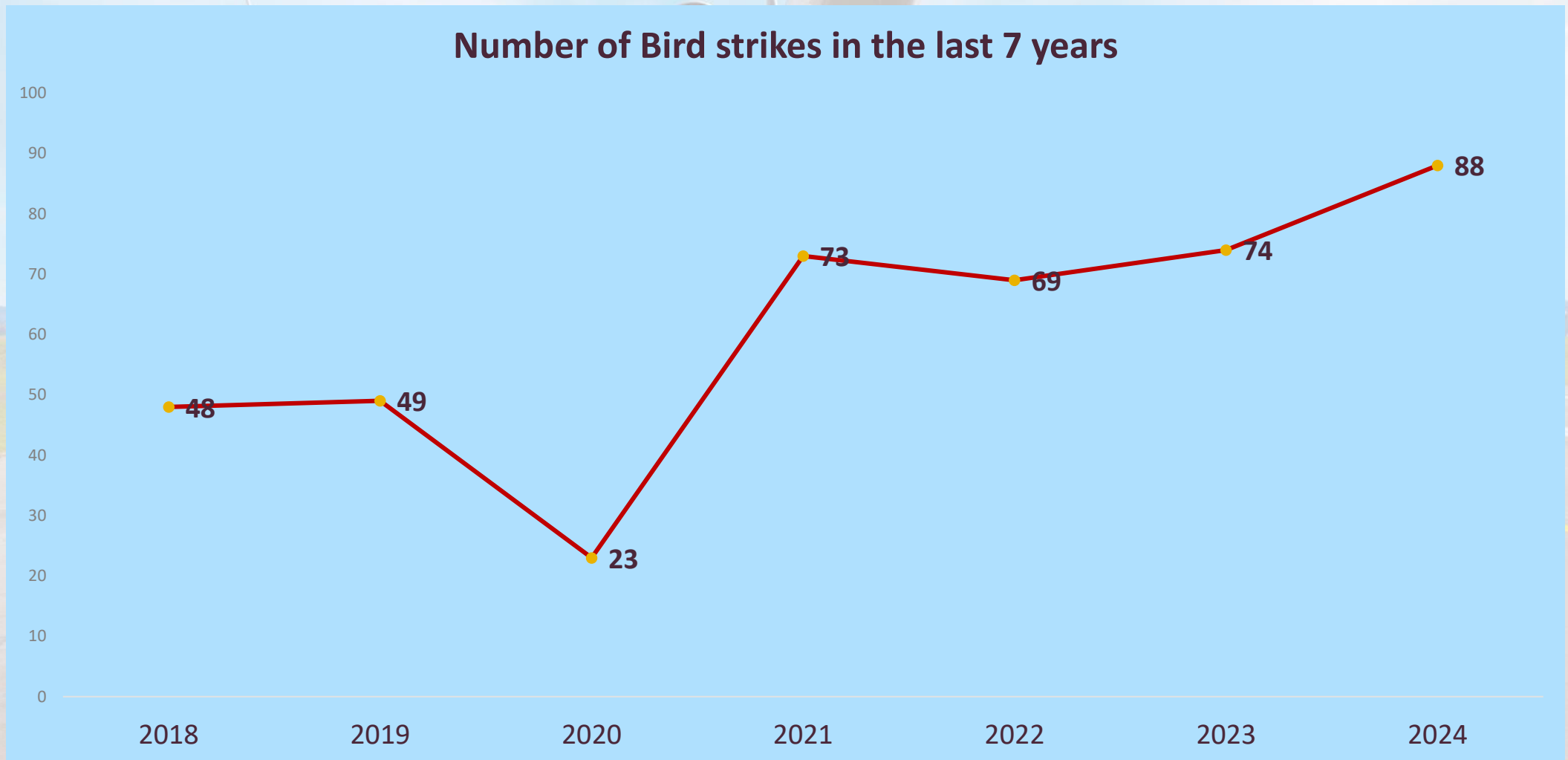
Operator Level

- Hazards
- Occurrences
- Organizational Top Risks Areas
- Safety performance monitoring and measurement

Operational risks in Nepal

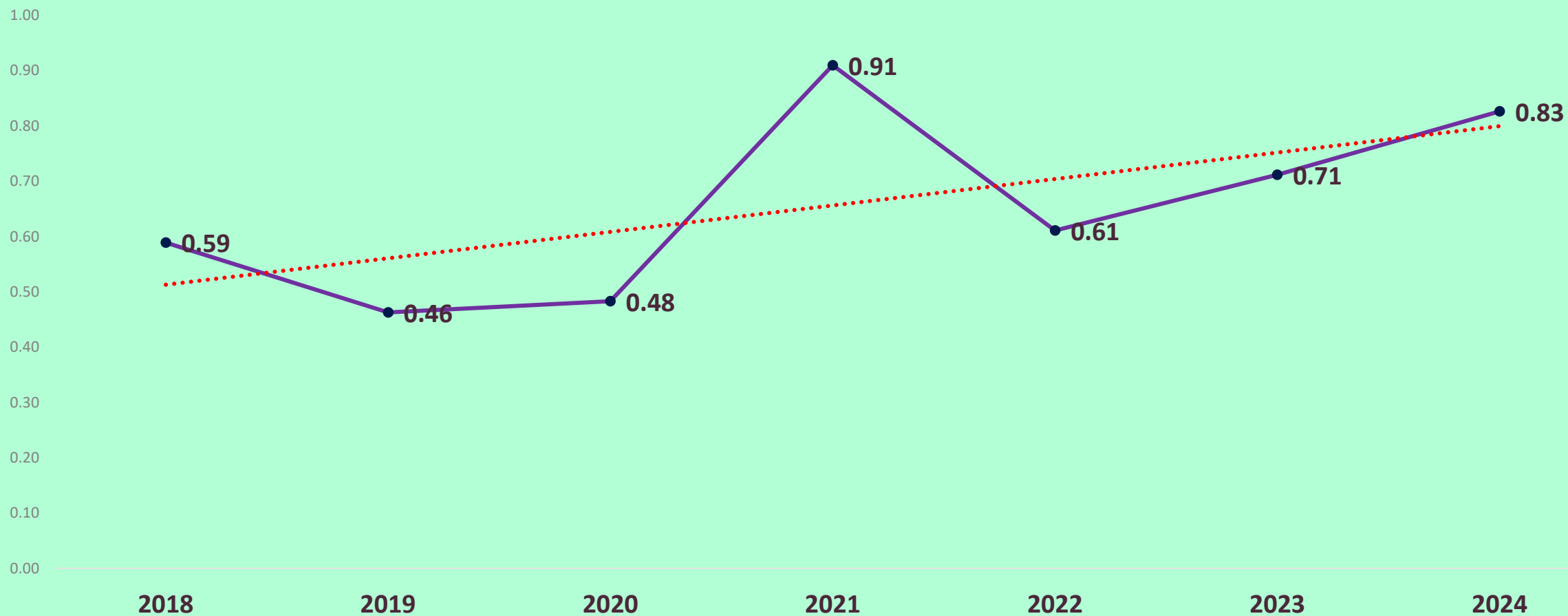


Bird Strike in Nepal



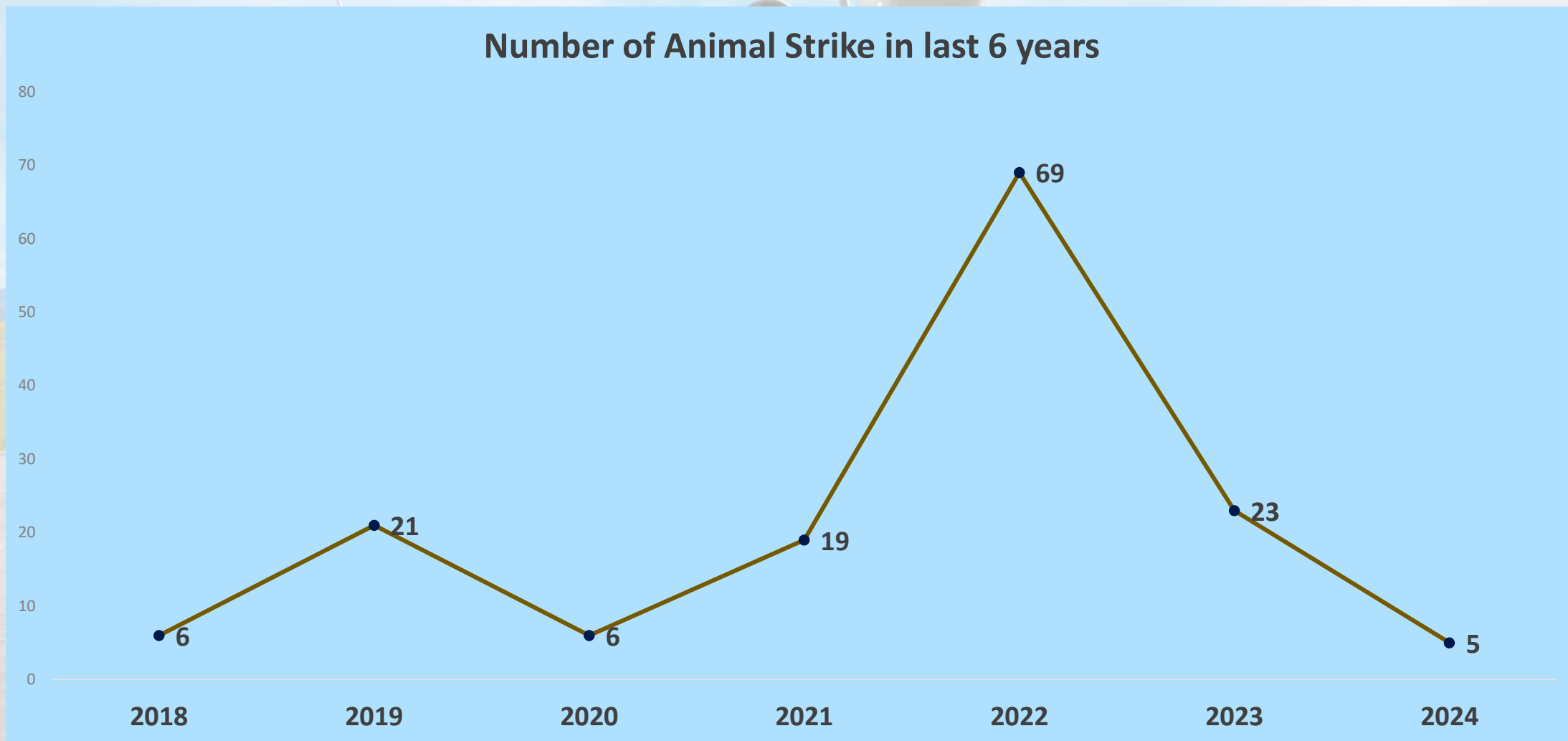
Bird Strike in Nepal

Rate of Bird Strike Per 1000 FHs in the last 7 years

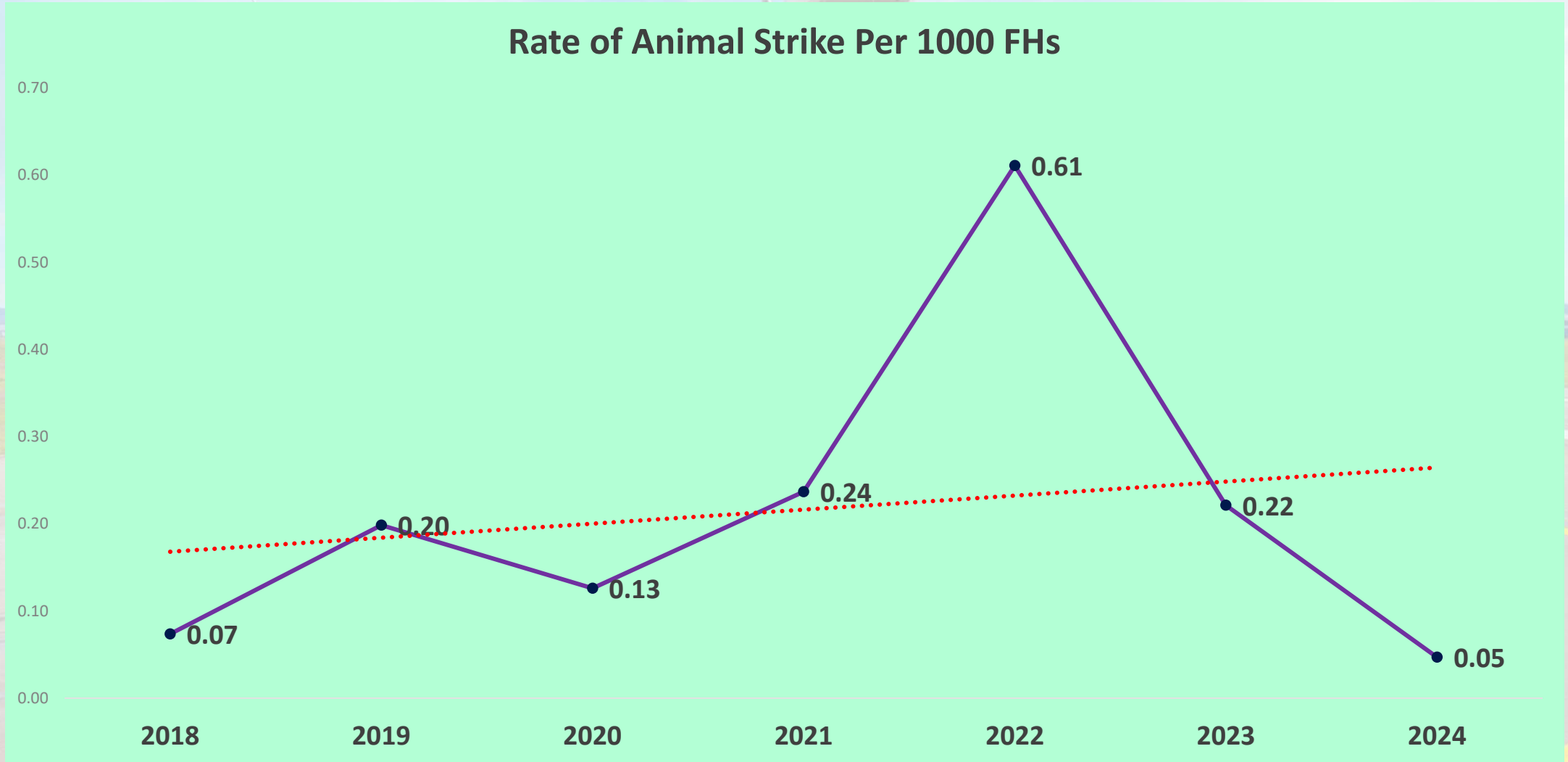


Animal Strike in Nepal

Number of Animal Strike in last 6 years

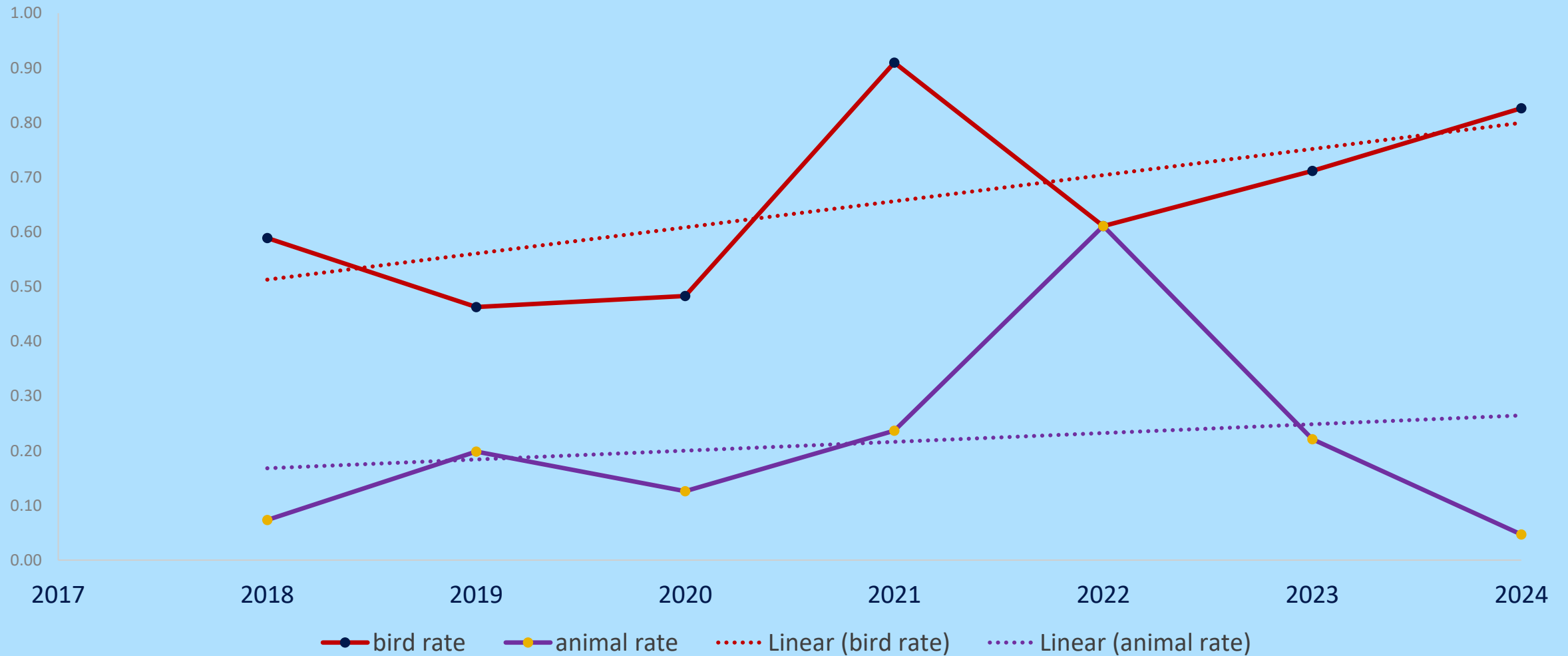


Animal Strike in Nepal



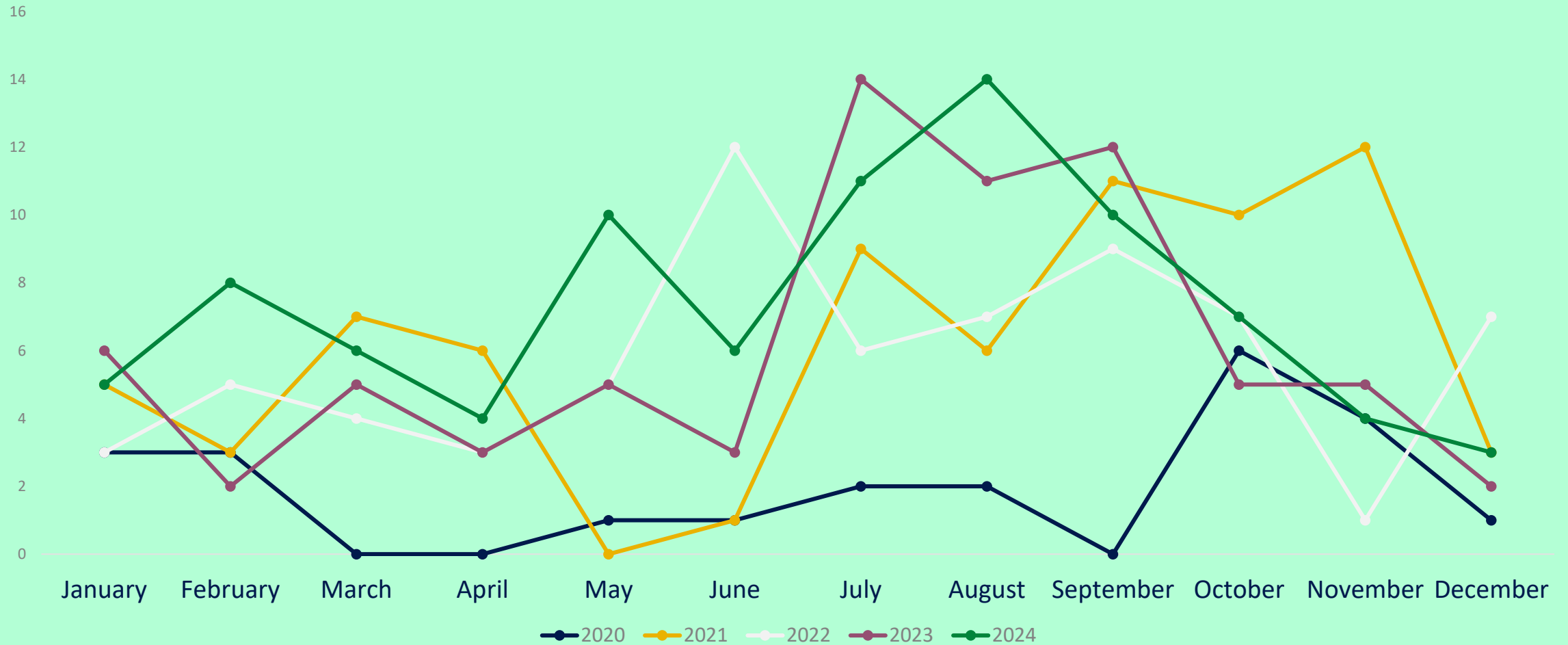
Wildlife Strike in Nepal

Bird and Animal Strike in Nepal in the last 7 years



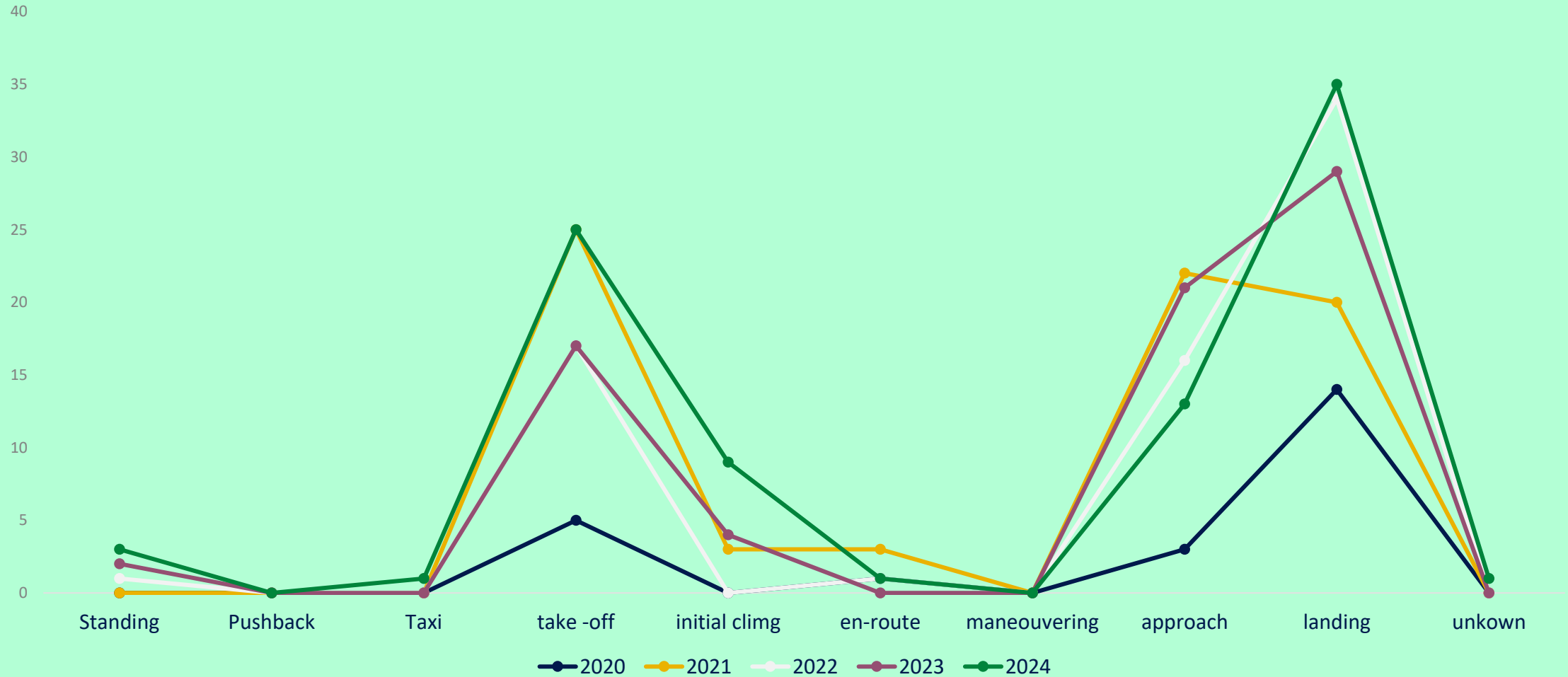
Wildlife Strike in Nepal

Number of Bird Strike in the last 5 year- monthwise



Wildlife Strike in Nepal

Bird Strike in the last 5 years- Phase of Flight





Thank you