



# CANSO Member Survey II on Runway Safety

In collaboration with ACI

ICAO Workshop on Runway Safety Team

25 May 2023

Presenter: Dr Jaco van der Westhuizen



# Survey Questions on Prioritized Runway Safety Issues



## Runway maintenance

- 1a. Provide best way to manage SHORT NOTICE runway maintenance safely. (Open ended)
- 1b. Provide best way to manage LONG NOTICE runway maintenance safely. (Open ended)
- 1c. Provide top three areas of improvement regarding runway maintenance. (Open ended)

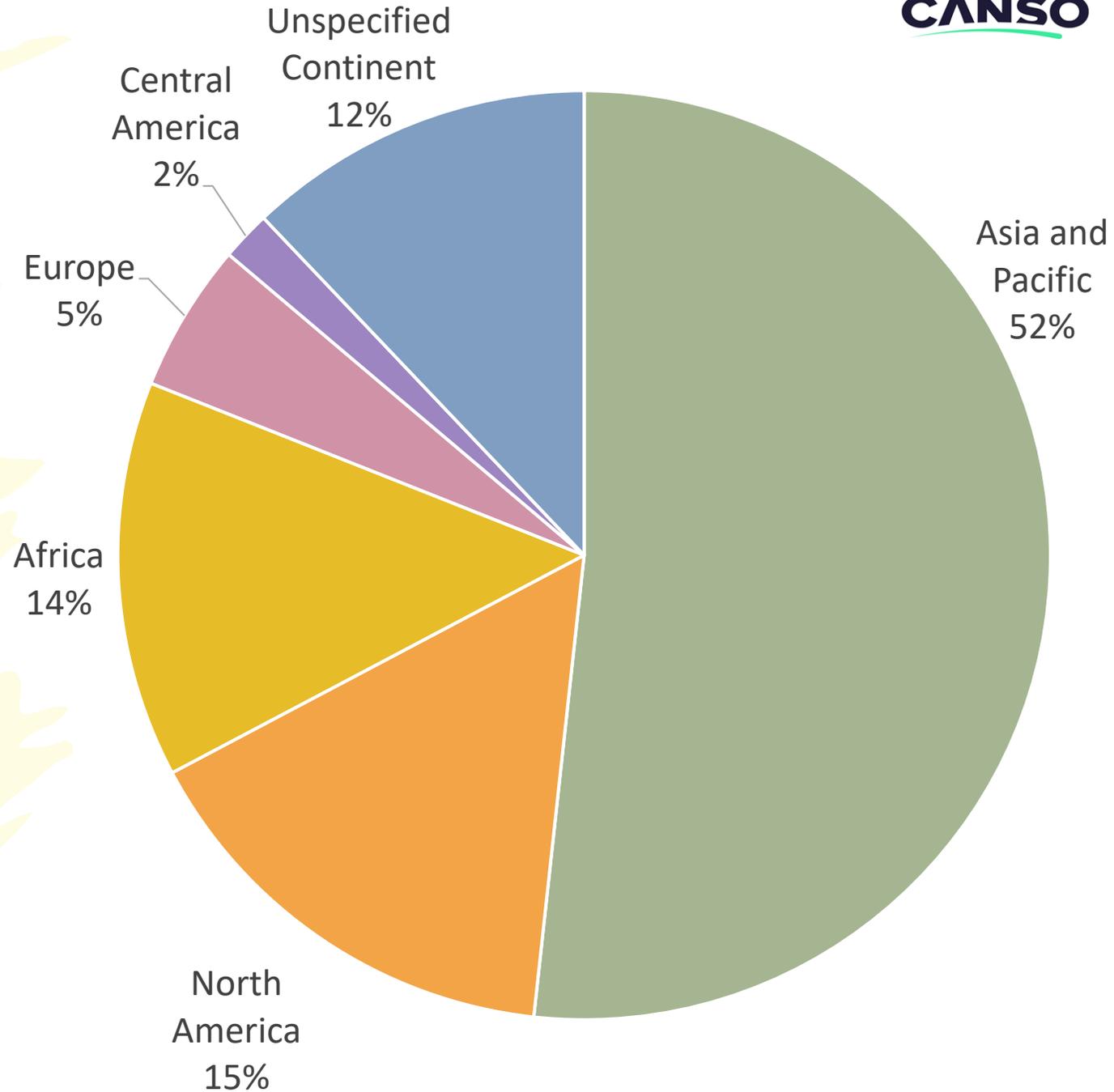
## Sharing of safety occurrences

- 2a. How are safety occurrences reported amongst stakeholders at your airport? (Multiple choice)
- 2b. To which levels within your organization is safety lessons shared / discussed? (Multiple choice)
- 2c. How are the safety lessons shared amongst the stakeholders of a Runway Safety Team (RST)? (Multiple choice)
- 2d. Which area(s) of improvement will greatly enhance stakeholder's interface in safety reporting and learning? (Multiple choice)

## How best to run an RST?

- 3a. Please provide three areas of improvement identified by your RST with a potential airport safety impact (Open ended)
- 3b. Please provide three areas of improvement identified by your RST (or yourself) with a potential airport safety impact. (Open ended)
- 3c. What measures do you employ to assess the effectiveness of your RST? (Open ended)

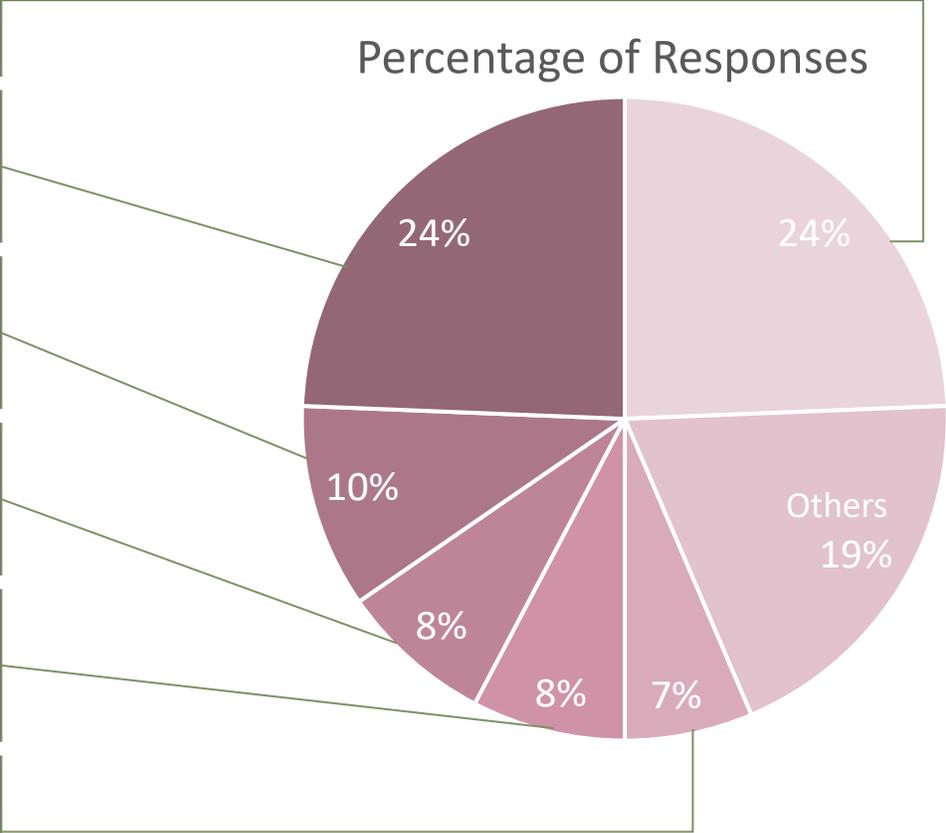
# General Survey Results



<b>Survey Tool</b>	Online platform
<b>Survey Period</b>	January 2023 (two weeks)
<b>Target Participants</b>	CANSO-membered ANSPs
<b>Total Responses</b>	58

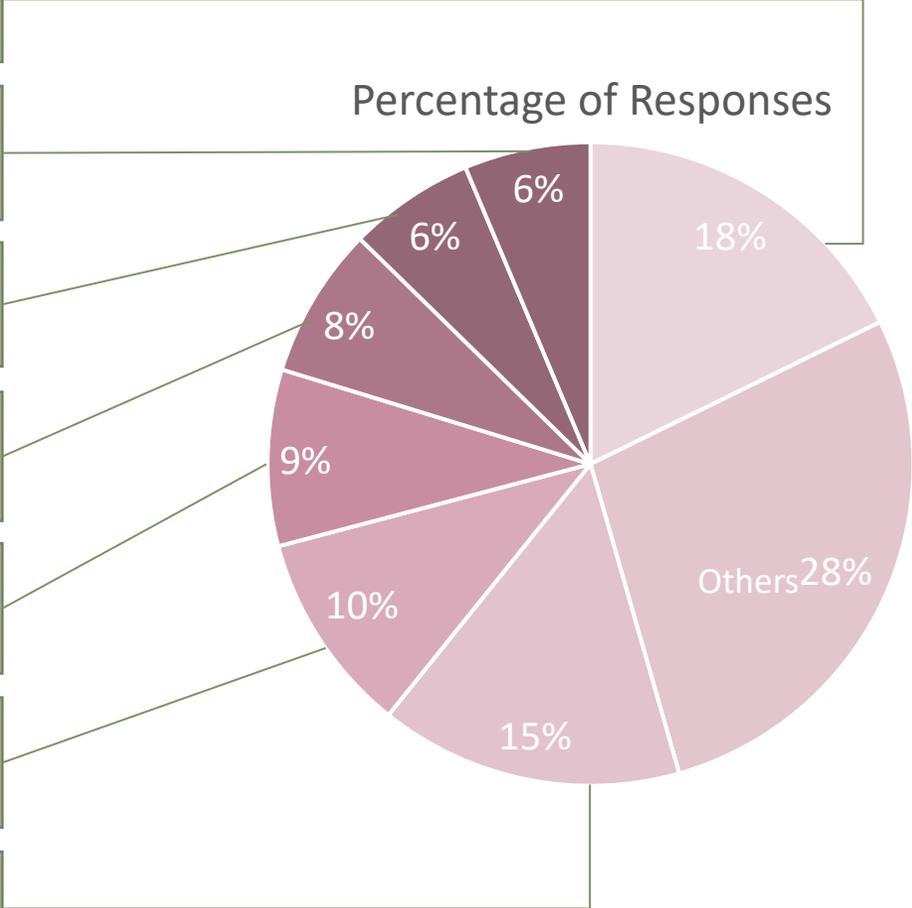
# Runway Maintenance: Best way for an ANSP or airport to manage SHORT notice or emergency maintenance safely

- Broadcast on ATIS/NOTAM. Reason. Estimated completion
- Immediately notify stakeholders (direct comms with primary stakeholders) (phone or in-person is best, followed by radio, letter, NOTAM)
- Create nodal point for communicating to all stakeholders (with extensive list of contacts for all stakeholders)
- Limit work time on RWY as far as possible/limit flying where possible/during low traffic times (e.g. night time)
- Plan as much as possible with stakeholders (determine best strategy for type of closure/repair work, e.g. open 30 min/close 30min)
- Signage & lighting to warn of work in progress (RWY lights off)



# Runway Maintenance: Best way for an ANSP or airport to LONG term maintenance safely.

- NOTAM; formal letter, ATIS, AIP supplement
- Stakeholder collaboration (include focus on impact)
- Formal communication platform and communication lines known to all
- Planned schedule
- Perform a safety assessment first
- Define clear procedures
- Train staff to understand airport construction & procedures

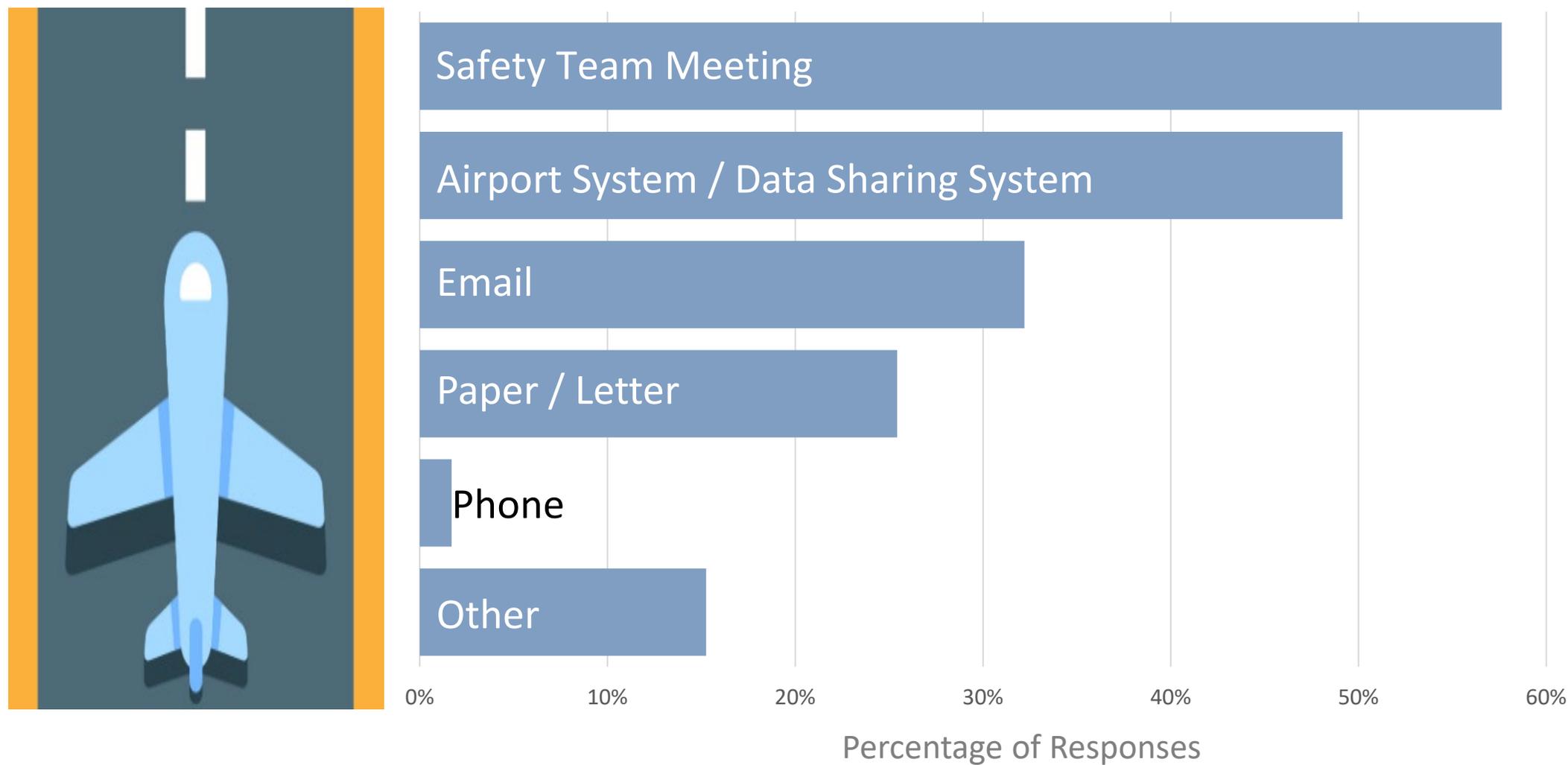


# Runway Maintenance: Other areas of improvement for interfacing between ANSP and airport

- Continuous communication; include ATC in meetings.
- Frequent briefings between Airport and ATC (or RST) - constant sharing of info amongst parties (allow for Q&A).
- Train workers in airside safety.
- Plan course of action then stick to planned times - monitor progress - communicate anticipated delays in construction work ASAP.
- Train workers in communication with ATC - consider establishing back-up comms solution.
- Establish procedure (with checklist) for whole process from need identification, notification, maintenance practice and opening of RWY - include preparation to react during unusual or emergency situations arising during or as a result of works.

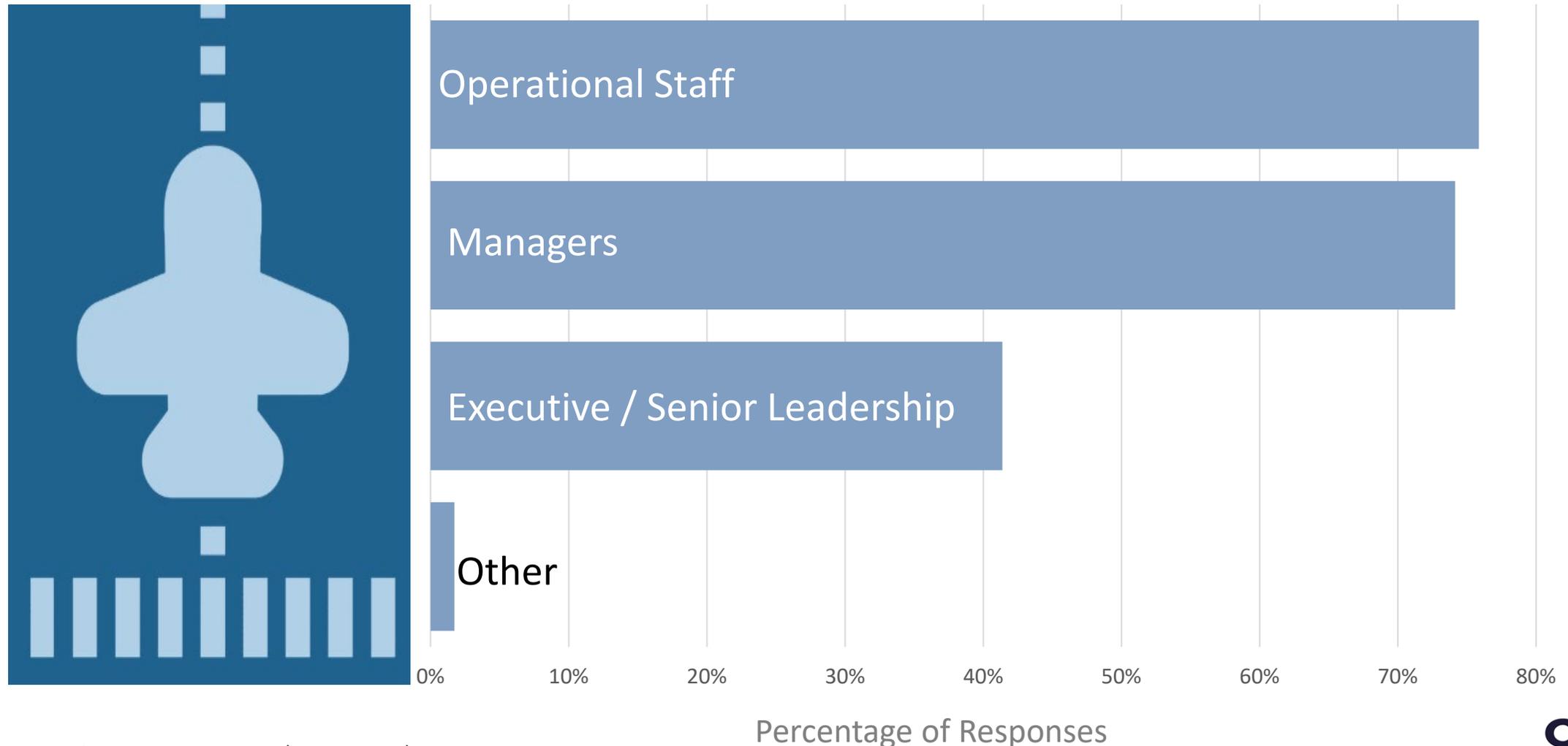


# Sharing of Safety Occurrences: How are safety occurrences reported amongst the various stakeholders at your airport?



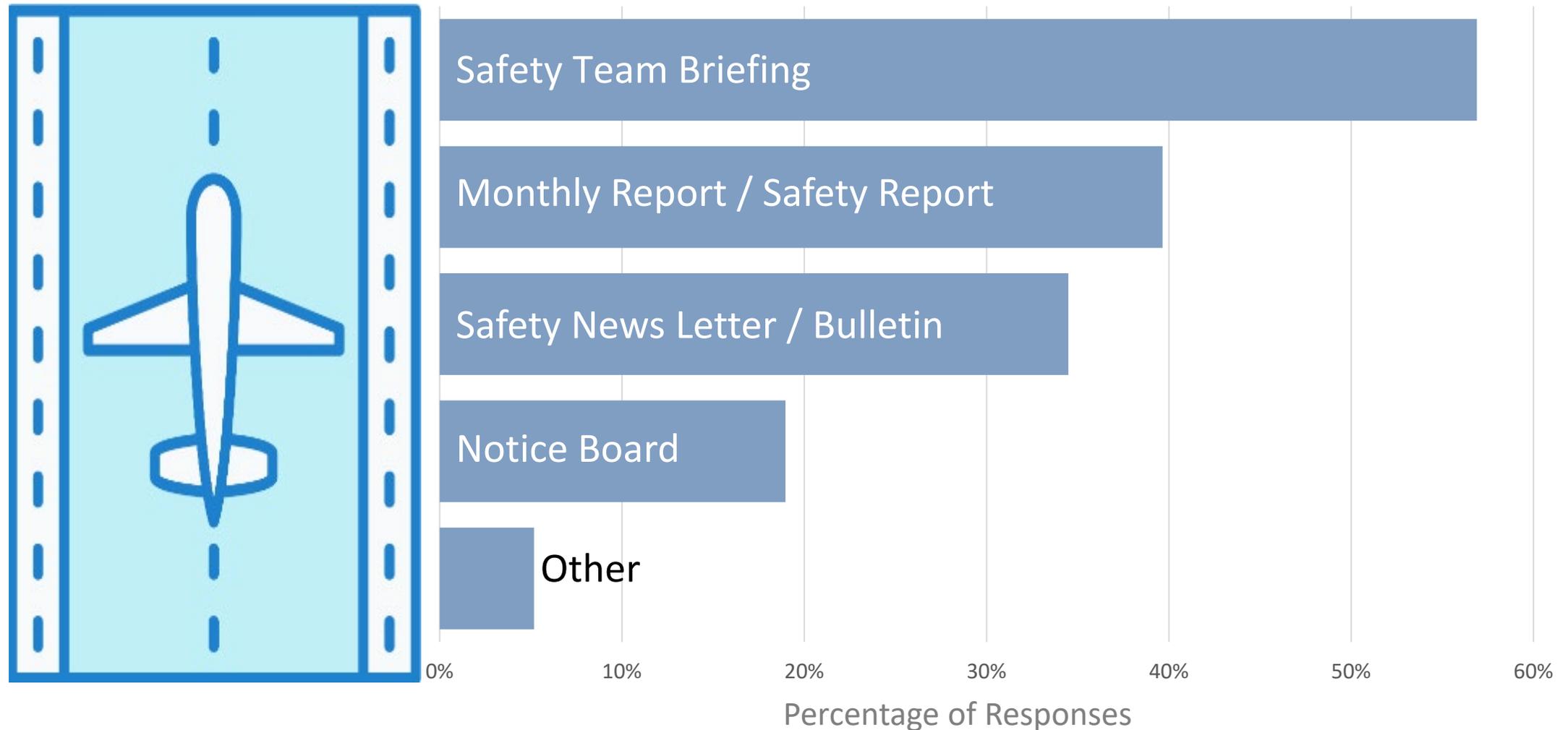
**Note:** Participants may select more than one answer.

# Sharing of Safety Occurrences: To which levels within your own stakeholder groups are safety lessons shared/translated/discussed?



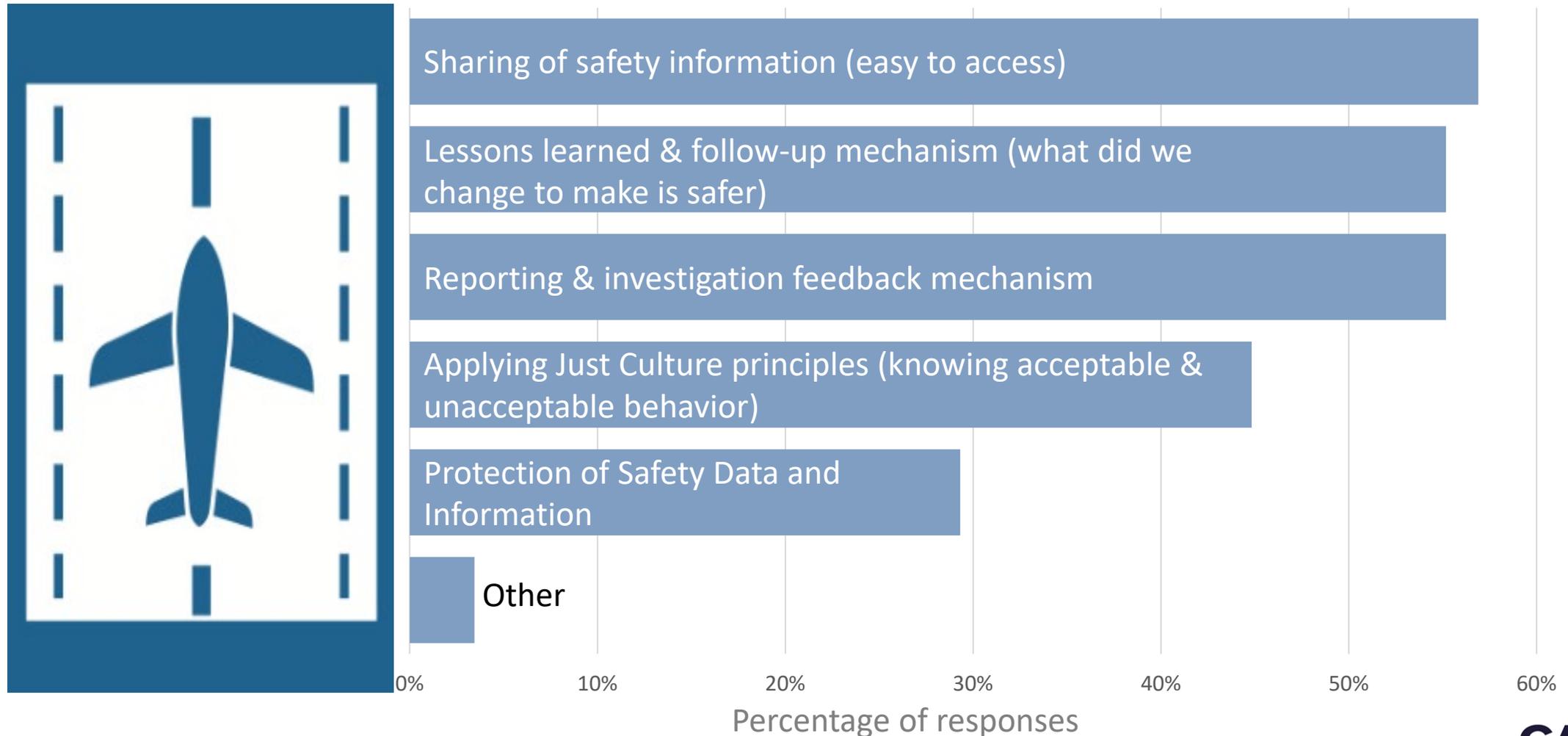
**Note:** Participants may select more than one answer.

# Sharing of Safety Occurrences: How are safety lessons shared amongst the various stakeholders of a Runway Safety Team (RST)?



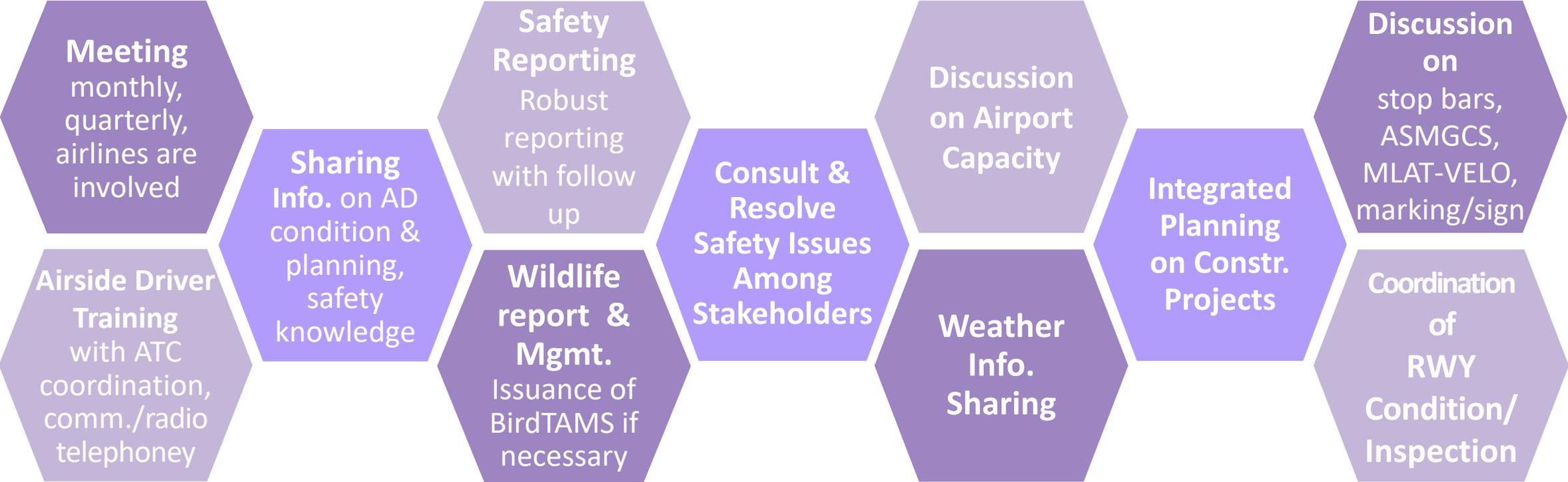
**Note:** Participants may select more than one answer.

# Sharing of Safety Occurrences: At your airport, which area(s) of improvement will greatly enhance stakeholder's interface in safety reporting and learning?



Note: Participants may select more than one answer.

# How Best to Run RST: Good practices being used by your RST.



A multi year runway safety enhancement program, with quarterly progress updates



Monthly bulletin



Shiny Firetrucks



Quarterly safety initiatives amongst staff



Aerodrome hot spots discussions and actions

# How Best to Run RST: Areas of improvement identified by your RST with a potential airport safety impact.

## Safety Culture

- Adopt Just Culture to encourage more safety reporting on violations
- Promote safety culture

## Training

- For contractors doing work on rwy
- Integrated training for winter operation
- Communication & phraseology

## Safety Report

- Need work on timeliness, progress/feedback and protection of safety Info.

## Standard & Best Practices

- Need discussion on new ICAO recommendations / best practices on runway safety



## Meeting

- Time to meeting
- Persons on the team
- Follow up on meeting solution
- Communication with airlines

## Taxiway/Airport Layout Enhancement

- To satisfy operational needs
- To eliminate blind areas

## Coordination on Work Plans

- Rwy maintenance to avoid busy period
- Close coordination needed for rwy closure/large projects

## Improvement on Equipment

- Airport lighting system
- Consistent use of VELOs
- Use of stopbar and request more stopbars

## Need to Establish RST

- RST doesn't exist in many airports
- RST became inactive because of pandemic

# How Best to Run RST: What measures do you employ to assess the effectiveness of your RST?

Top  
3

## ASK THE PEOPLE

- Stakeholders / operational users feedback
- Level of coordination
- Periodic member survey
- Safety interview

Top  
3

## ANALYSIS & FOLLOW UP

- Complete interview and investigation of safety events
- Follow up remedial actions and communicate lesson learned
- On-going monitoring of implemented measures

Top  
3

## NUMBER & STATS

- Safety KPI (eg. Rwy events, wildlife occurrence)
- Number of reports / safety occurrence
- Reduction in occurrence
- Trend analysis, monthly statistics

## WE CAN FEEL IT

- Fruitful discussion / regular dialogue
- Everyone performs duty with the same procedures / standard and safety mind

## SAFETY INFO. SHARING

- Sharing data and information
- Information sharing and regular meeting to address the safety issues
- Share occurrence tracking system locally

## OTHER

- Regular audits / review of reporting system
- Workload and complexity of work



# Questions

and

# Answers

**Any survey or work group queries?**

**E-mail: [jacovdw@atns.co.za](mailto:jacovdw@atns.co.za)**