

Global Safety Assessment

An understanding of the global and regional safety needs Survey Results NACC and SAM Region

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28/10/2021

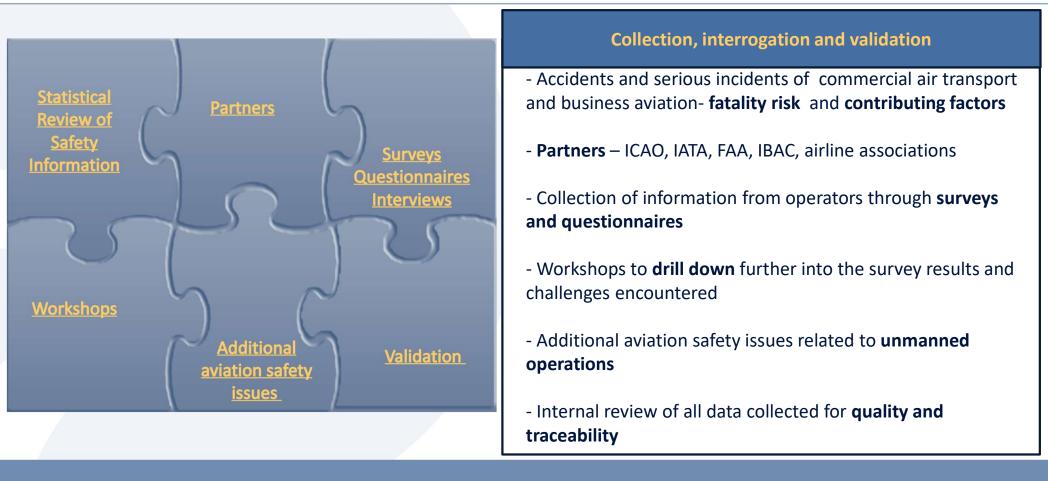
Regional Aviation Safety Assessment: Data-Driven Analysis of the Impact of Pandemic on Global Aviation





Data and information gathering





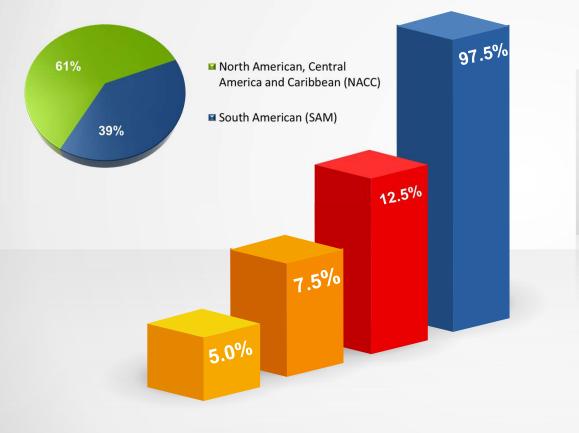


About the Survey

- an anonymous online survey concerning the impact of the COVID 19 pandemic on the aviation system which has caused significant disruption to the entire aviation sector and most organizations.
- The survey asks questions about the risk assessments and mitigations strategies that may have been put in place during this global pandemic
- The survey was prepared in coordination with ALTA and distributed to its members for completion.
- A total of 41 members completed the survey within a period of three weeks
- The Flight Safety Foundation is routinely involved in examining the state of safety in the industry and looking for methods to enhance safety for the benefit of countries across the globe. We expect to find safety areas of interest that will prioritize our activities and draw a closer focus to the work that must be undertaken to address hazards to flight safety

Survey Respondents - Breakdown

Regional location of survey respondents

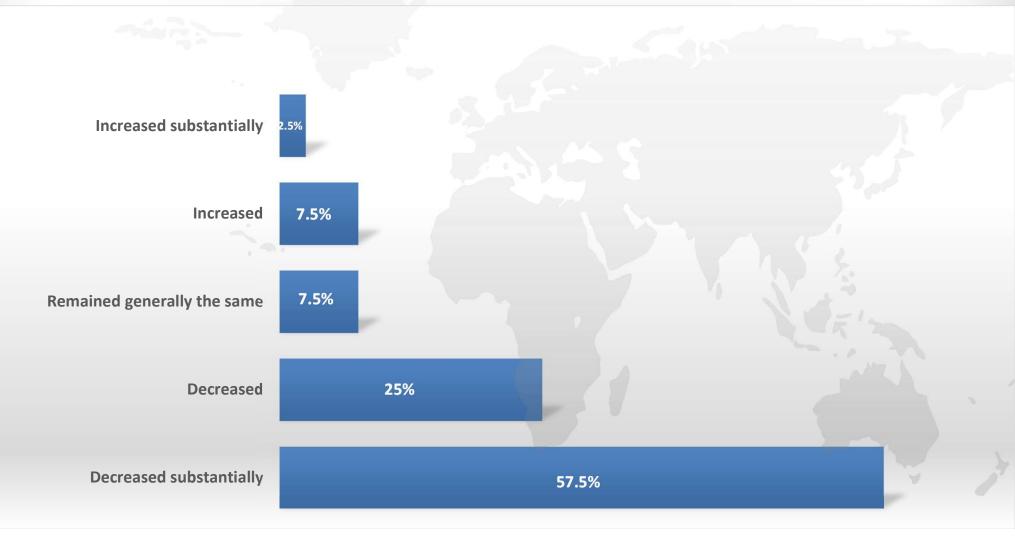


Breakdown of Survey participants

97.5% Commercial/Passenger airline12.5% Cargo Airline7.5% Specialty Operations5% Business aviation

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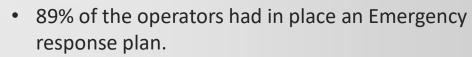
Impact of the Disruption



Top areas to further explore based on survey result



Business Continuity and Emergency Response Plans



- 59% established a formal Business Continuity Plan
- 87% ensured that change management reduction in workforce was included as part of risk assessment
- 16% of the operators did not have an established link between their ERP decision making and the BCP

Safety Management Systems and Risk Assessment Process



- Pretty much all operators have established an SMS and established a Hazard identification and Safety risk Assessment process. 85% updates their risk assessment due to the Pandemic.
- Top considerations when performing safety risk assessments were Exposure to Infection (70%), Route Differences (50%)
- 74% of the operators reviewed their risk assessment as required / weekly/or monthly
- Flight Operations- SOPs, 60% performed a risk assessment for each new SOP during the Pandemic

Ability to Monitor and Detect Hazards and perform a Risk Analysis



- Most operators indicated they perform very well in normal safety SPI Monitoring as well as Safety Reporting Integrity
- 33% of the reporters did not Monitor and detect potential hazards for airports and Runway FOD Programs
- 20% did not consider differences in COVID risks by region, nation or cities

Change Management Process



- 37% of the Operators indicated that Change management process was applied across their entire company without exception.
- 60% of the operators felt that they managed to mitigate the risk of staff workforce changes during the pandemic well or exceptional.
- 64% felt that overall company processes and systems keeping pace with COVID related changes to operations was better than usual or exceptional

CAA and Industry Cooperation

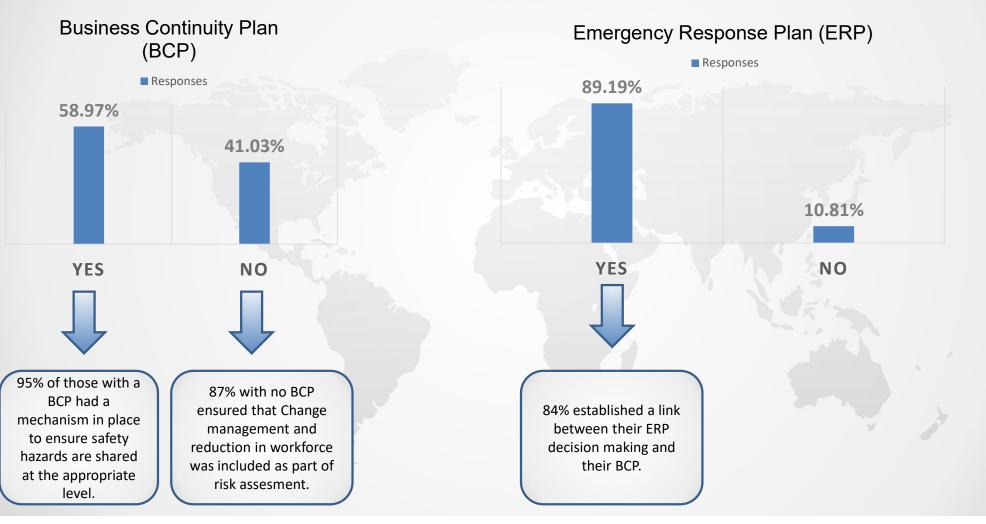


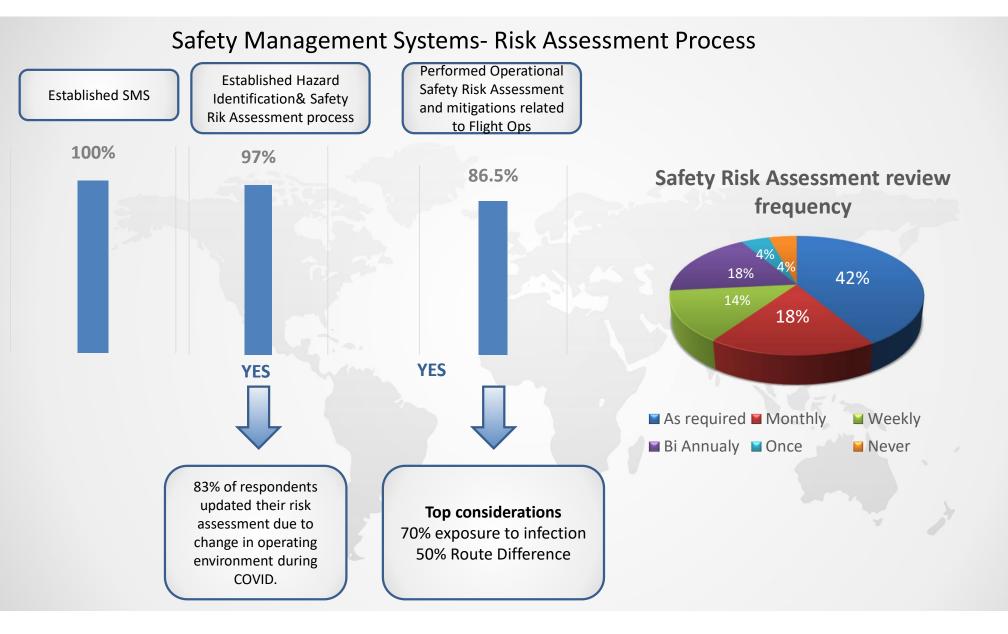
- The top guidance received by operators from their CAAs during COVID related to Pilot Medical Certificates, pilot proficiency checks as well as license validity. 18% indicated they did not receive or request guidance
- 65% of the operators received targeted exemptions, exceptions or alleviations related to the above
- 46% of operators requested and received exemptions to address in Cargo Cabin Solutions
- 31% of operators requested extensions to flight duty periods of which 70% were successfully granted.
- 63% of CAAs reduced their periodic inspections during the last 12 months of the Pandemic
- 37% of operators indicated that the level of communication between regulator and operator reduced during the pandemic.

Other Insights

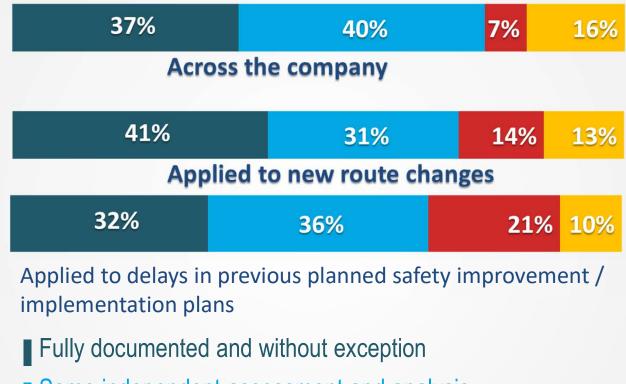
 The survey identified other insights related to OEM Consultation as well as Human Factors / Crew Resource Management which can be further reviewed in this presentation

Business Continuity and Emergency Response Plans





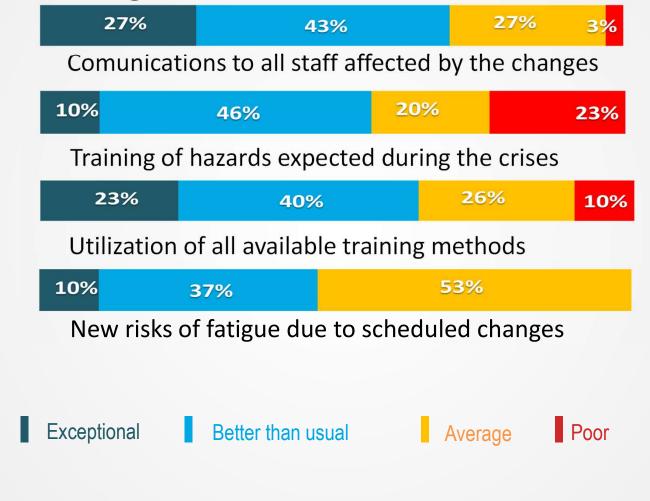
The Change management process applied to an organization



- Some independent assessment and analysis
- Only in consideration by the change designers

Inconsistent

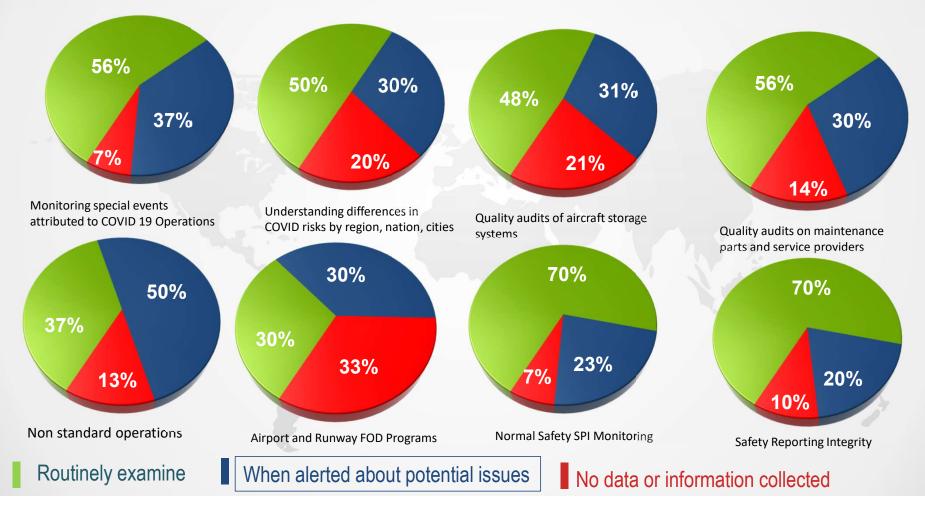
Manage to mitigate the risks of staff workforce changes



How well have processes and systems kept pace with COVID related changes to company operations

35%		31%	35%	
IT System	าร			
17%		41%	38%	3%
Manuals	system	าร		
28%		38%	31%	6 3 <mark>%</mark>
Employee	e safety	y reporting		
31%		48%	5	17% 3 <mark>%</mark>
Hazard Id	entifica	ation and Risk	Assessment	t
31%	6	24%	34%	10%
Safety cul	ture pi	romotion		
Exceptional Bette		etter than usual	Averaç	
			7101010	

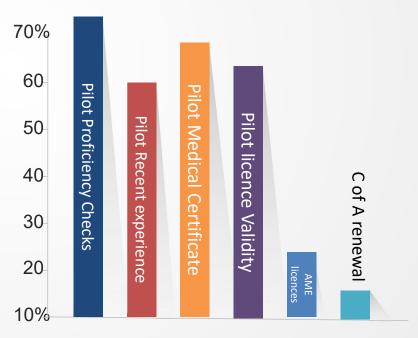
Ability to Monitor and Detect Hazards and Risk Analysis during the COVID 19 Recovery

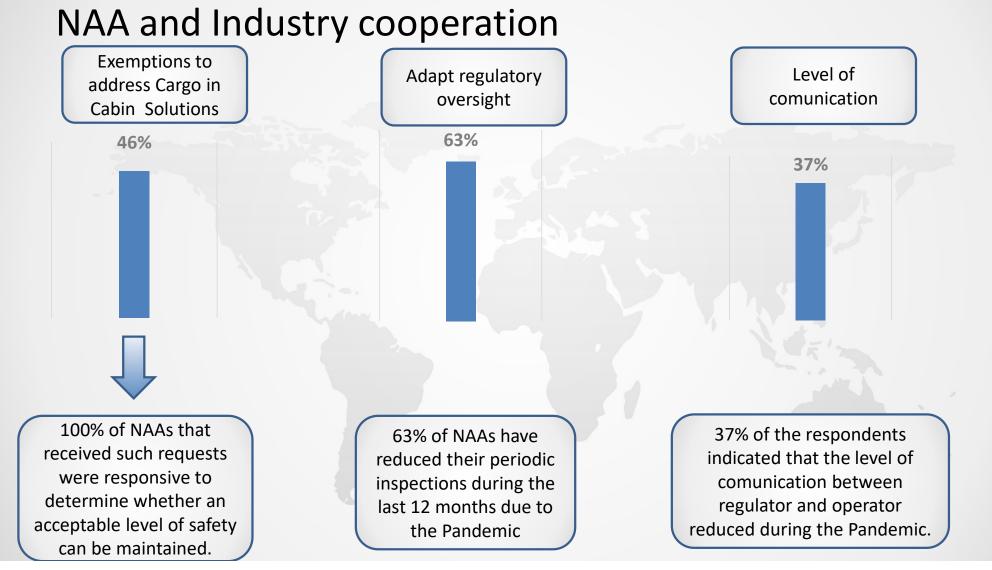


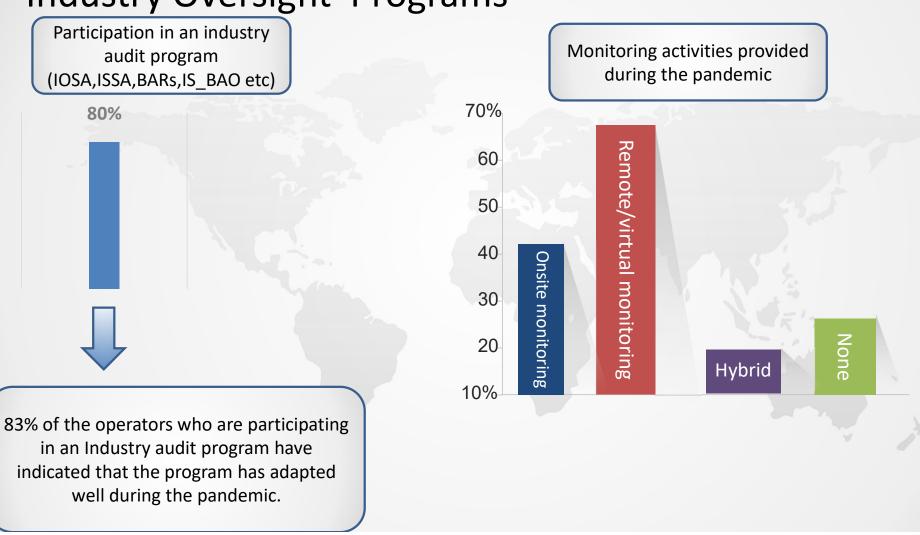
NAA and Industry cooperation



Level of guidance provided by NAAs for adapting flight operations, continuing airworthiness/maintenance and training in the "new normal" during COVID conditions Level of targeted exemptions, alleviations, extensions issued by NAAs for adapting flight operations in the new normal during COVID

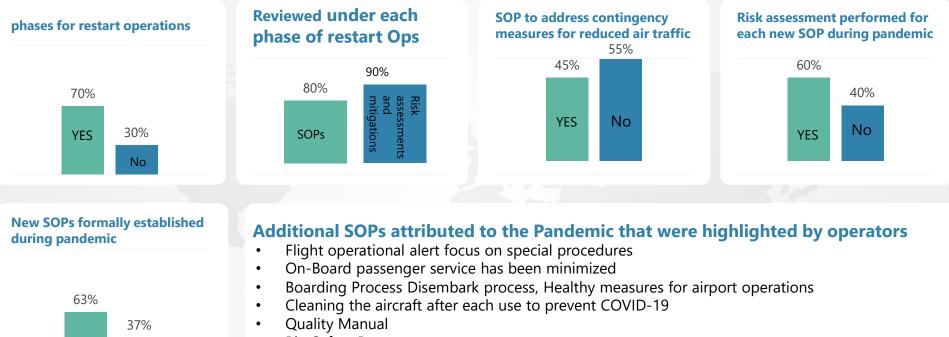






Industry Oversight Programs

Flight Operations- SOPs – Risk Assessments



• Bio Safety Program

YES

No

- Psychological status of personnel assessment
- SOPs were introduced gradually (methodically) allowing a smooth transition from total shutdown to reintroduction of service

Flight Operations- SOPs – Risk Assessments

79% of Operators identified the Risk below:

79%



The extended absence of a significant number of flight deck crew can lead to diminished skills, less effective situational awareness and can lead to deviation from established SOPs. Additionally, as a result of the pandemic, crew will have to educate themselves with multiple temporary revisions to operational policies and procedures designed to operate in the current environment

Mitigating Measures Introduced

- Several memoranda, periodic training redesign, periodic safety bulletins, specific FDM monitoring
- Increase training and communication, online training
- Increased FDA monitoring to identify hazards (non-standard SOPs/follow trends
- Increase of surveillance/supervision
- Crew recency control
- Communication to flight crew to maintain Proficiency check prior to return to operations (SIM Session)
- Training and Sim
- Masks, Disinfection and gloves
- New Bio Safety Procedures- implementation of SOPs- RTS program- Training Program
- Personnel assessment
- Enhanced monitoring of data
- Primary COVID protection of crew. Retraining of skills

Flight Operations- Duty Periods

Seek extension from the CAA to flight duty periods

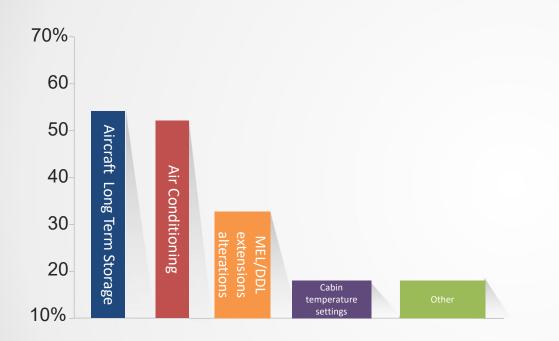


74% of Operators developed a Plan to ensure Flight Instructors and Evaluators (IE) are fully recent and competent.

50% of those operators seeking extension flight duty periods had an approved FRMS or a means to manage fatigue risks.

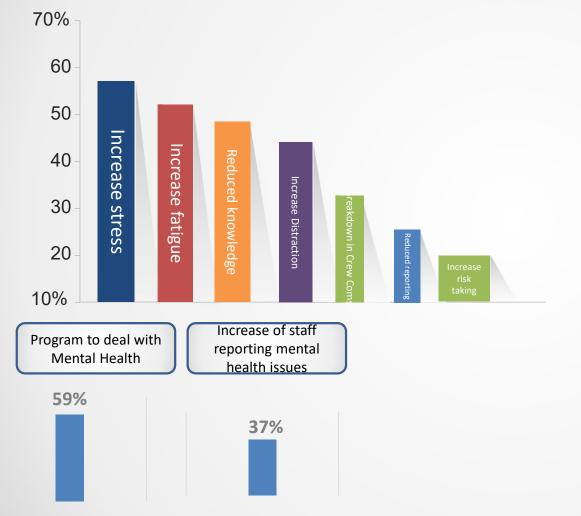
70% of the operators indicated that their CAA's were responsive to appropriatly determine whether an acceptable level of safety can be maintained.

Consultation with the OEM



Top areas consulted with the OEM during the Pandemic

Human Factors / Crew Resource management



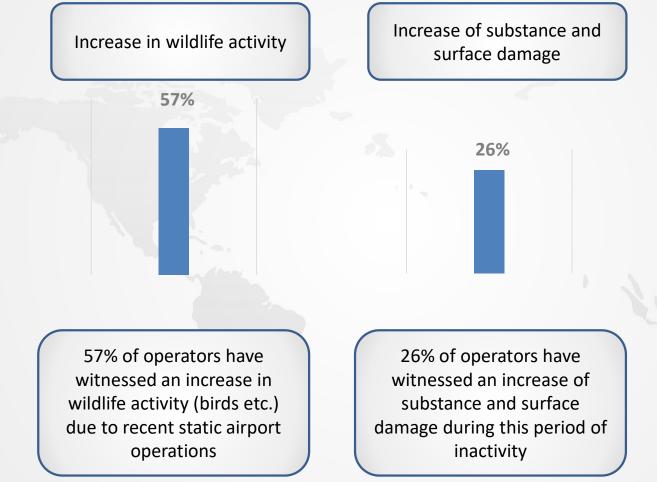
Human Factor issues throughout COVID which require attention during crew training and onboard operations. Some may have adverse affect on individual and group performance and introduce additional safety risks

56% - Increase stress – due to nonstandard operations
52% - Increase Fatigue – returning to work following a long period of inactivity. Constant alertness to ongoing fears and concerns around employment, infection, protection.
48% - Reduced knowledge and skills
44% - Increase distraction from tasks
32% - Breakdown in communications and alignment primarily due to change

in SOPs related to health and operational procedures that may be country or operation specific. 24% - Reduced reporting of nonconformities

20% - increase in risk taking

Air operators network-airports





Next steps

- The Foundation will work closely with ALTA to prepare a workshop for survey participants and its members to closely review the results of the surveys and confirm the gaps and challenges and provide guidance through best practices shared by participants and facilitators.
- The Foundation is performing a similar review in other regions and will analyze these results together with statistical review of safety information gathered from global and regional safety reports.
- A global assesment report will be prepared by Sept 2022



Global Safety Assessment

An understanding of the global and regional safety needs Survey Results NACC and SAM Region

Thank you

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