



ALTA REGIONAL SAFETY SURVEY

PA-RAST/71

VIRGINIO CORRIERI - Director of Safety and Flight Ops at ALTA



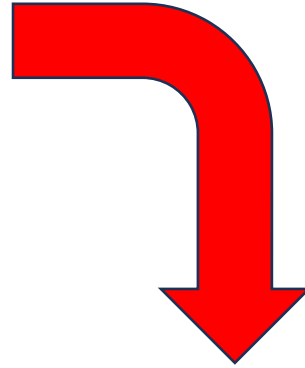
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- **Many sources of information/data...**
- **Only LATAM/CAR**
- **31 participants**
- **No identification**



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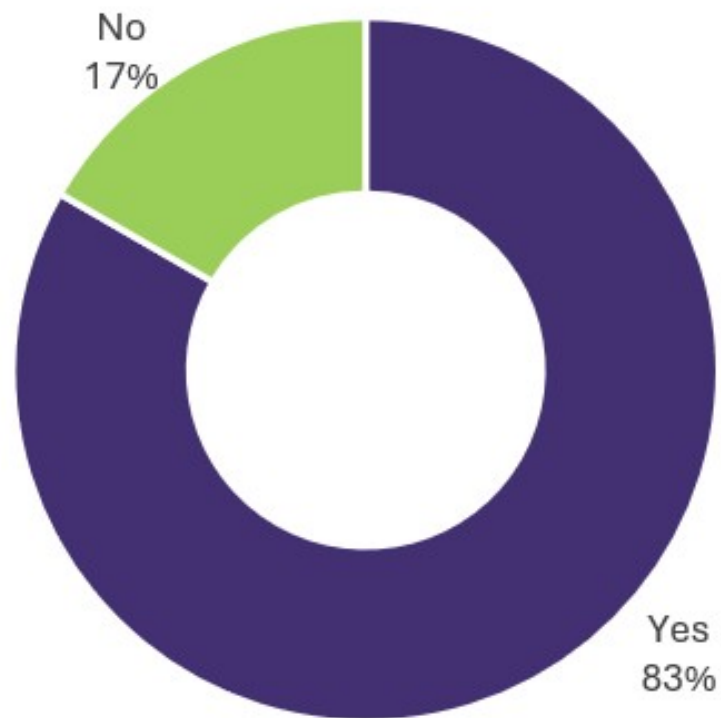


GOAL: To identify and prioritize key operational safety risks faced by airlines in Latin America and the Caribbean.



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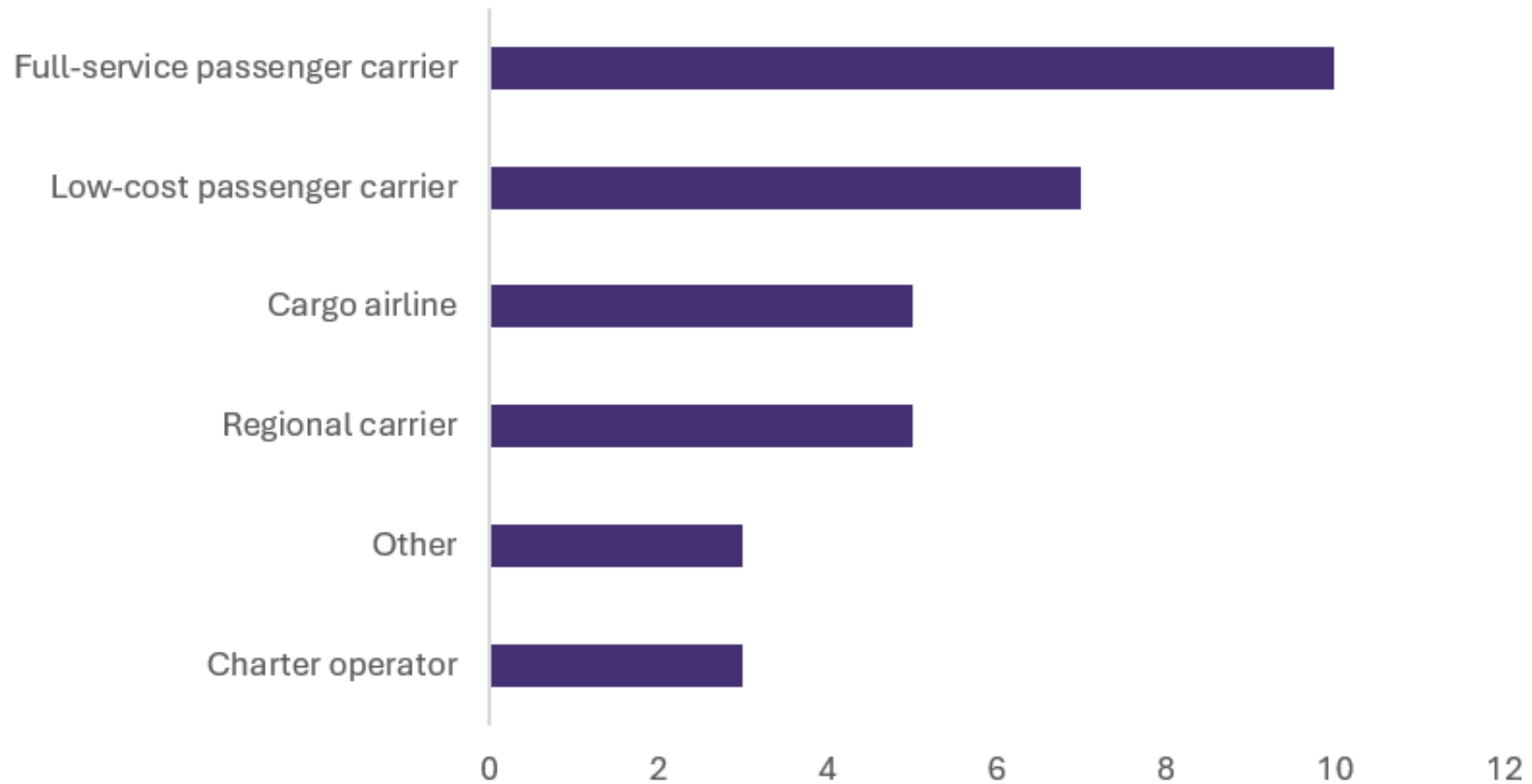
ALTA Membership:





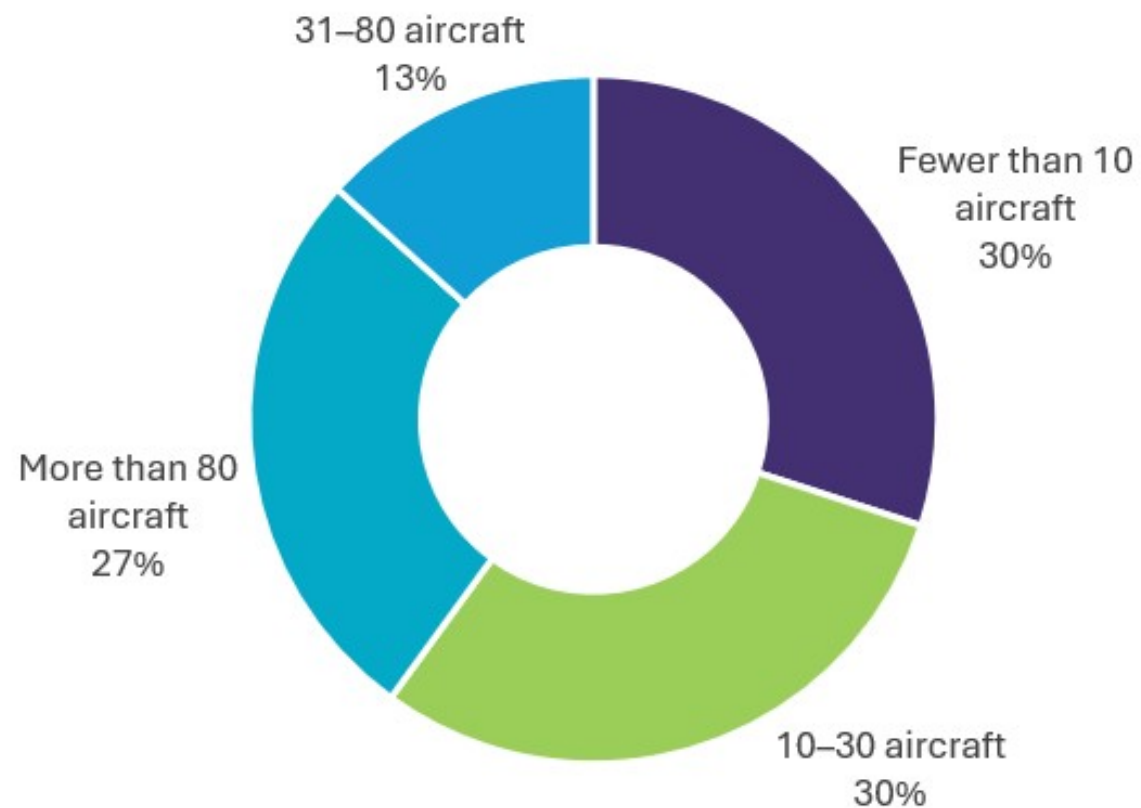
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Primary type of operation:



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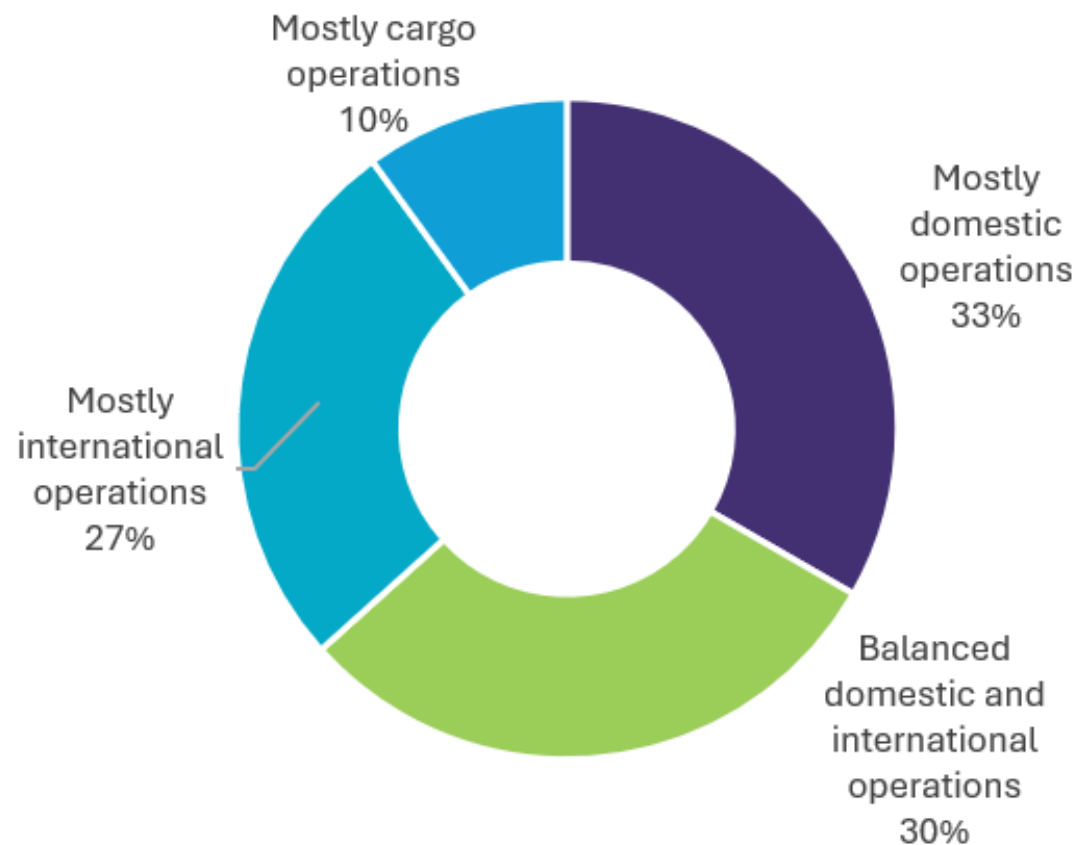
Fleet size:





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Type of operations that represents the majority of flights:





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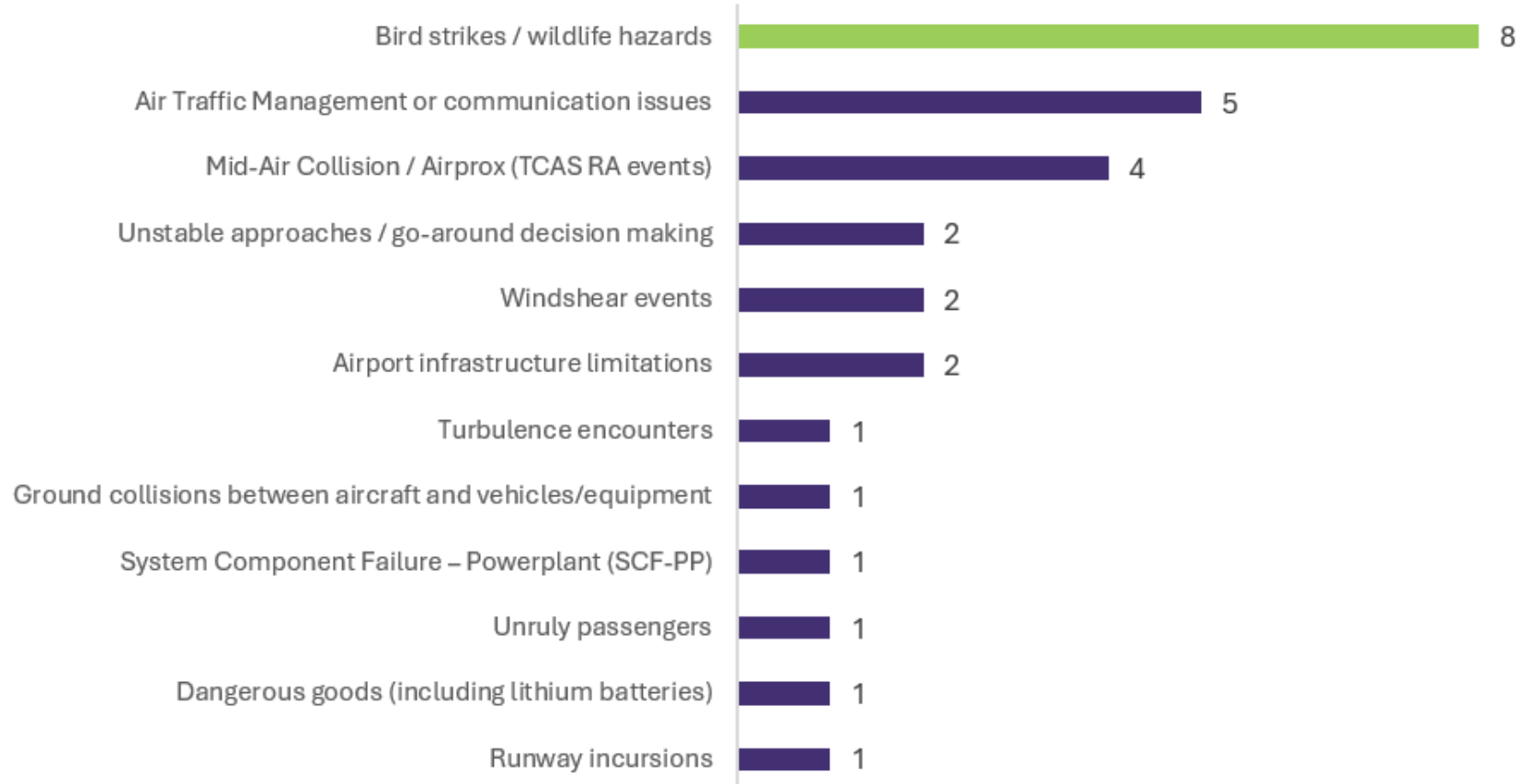
Key findings — Safety events across 39 airports:

- **Bird strikes is the #1 risk in the region:** they were the most selected risk overall (49 times) and appeared in 26 of the 39 airports identified in the survey, more than any other risk.
- **Unstable approaches is the second most reported risk:** selected 39 times and present in 25 airports, making it the most consistent operational concern after bird strikes.
- **ATM / communication issues emerged as a major hub-related concern,** with 35 selections concentrated across the following airports: Bogotá (BOG), Buenos Aires (AEP), Lima (LIM), Panama City (PTY), and São Paulo (CGH).
- **Mid-Air Collision / TCAS RA events showed the strongest airport-risk association in the entire survey,** with every respondent who identified Bogotá (BOG) as a top location selecting it as the airport's critical risk.



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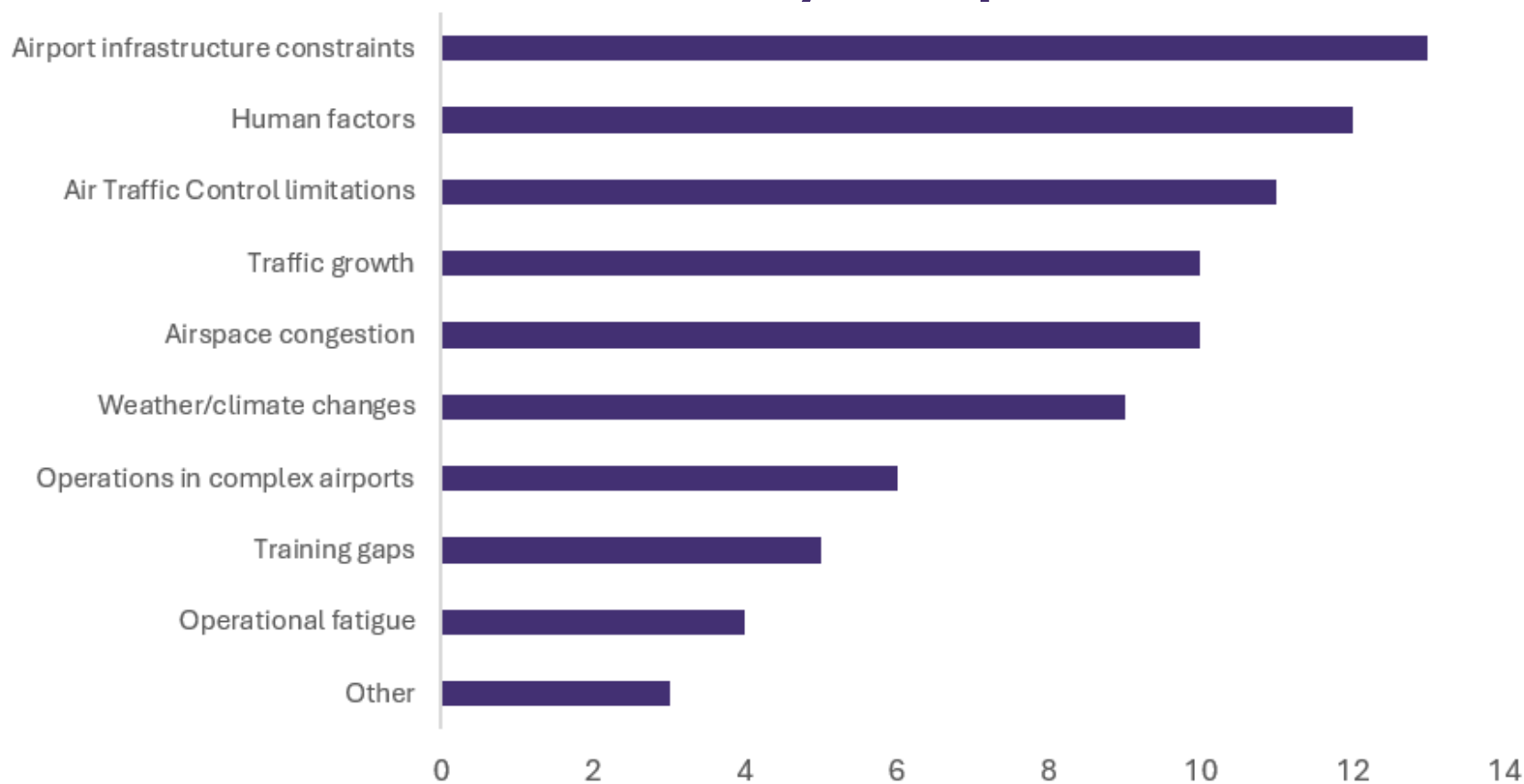
Which risks do you consider the MOST critical for your airline today?





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Which of the following factors do you believe are contributing the most to these risks in your operations?





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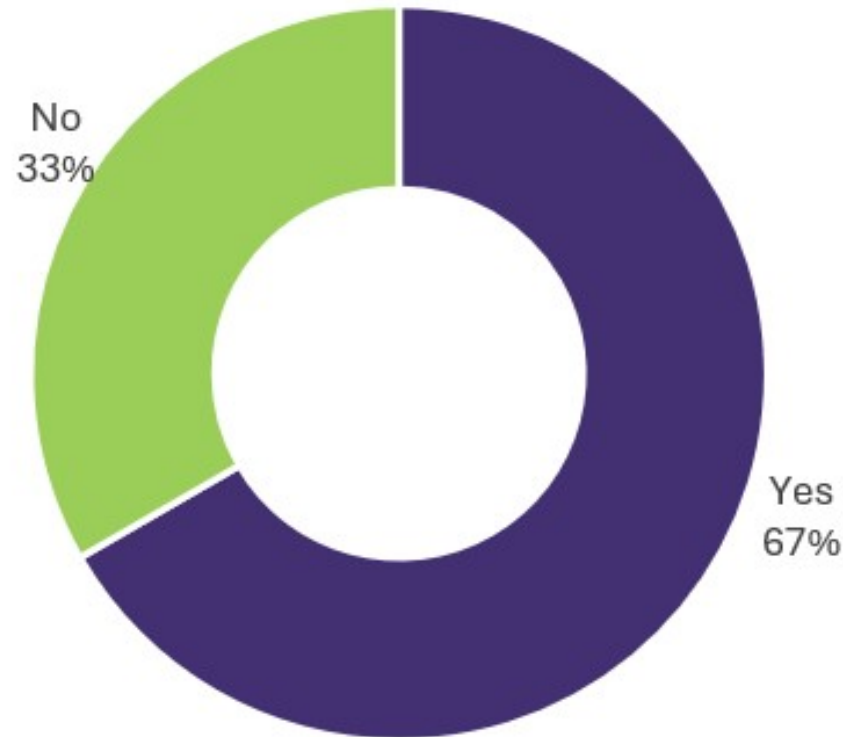
Emerging operational safety risks in the region that you believe should receive more attention:

Category	Specific mentions
Airport Infrastructure	Pavement condition, FOD at GIG, Airport management capacity (airside)
Drones & Balloons	Drone operations, Ballooning risk, Hot air balloons
Human Factors / Fatigue	Fatigue as main factor, Staffing gaps
Technology / Navigation	GNSS Interference, TCAS RA events
Meteorology	Accurate/timely weather reports, Extreme weather events
Cybersecurity	Impact on operational systems
ATM Capacity / Traffic Growth	Infrastructure and ATM limitations vs. traffic growth
Dangerous Goods	Lithium battery transport regulations
Geopolitical Risks	Geopolitical turmoil



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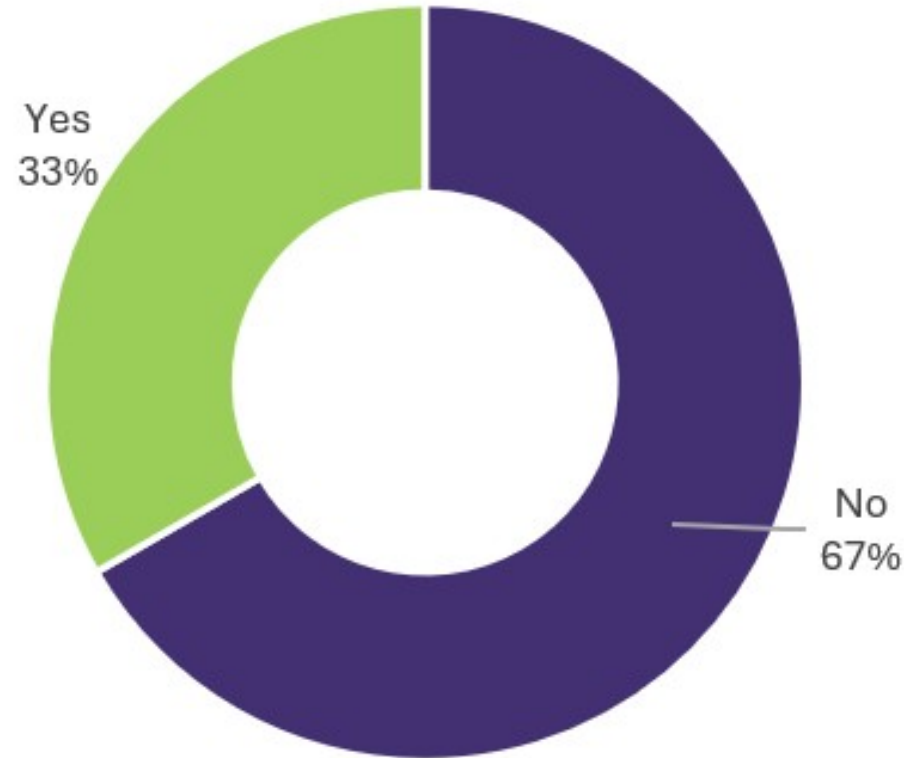
Does your airline currently participate in any Collaborative Safety Team (CST)?





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Does your flight operations or planning team utilize turbulence prevention and management tools?





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Turbulence hotspots:

Hotspot(s)
Andes near Santiago (SCL) — Chile/Argentina crossing; Patagonia (Torres del Paine); Cusco
Caribbean
Lima-Buenos Aires route (KONRI position)
GUA - FRS (Ciudad de Guatemala - Flores, Petén, Guatemala)
Northern Brazil near Equator and Andes
No specific hotspot — 80% of events below FL200 during cabin preparation phase (landing)
Over the Andes (general)
Routes to Santiago (SCL) and Ezeiza (EZE)
Santiago - Buenos Aires route
Andes / Cordillera (Foehn-Zonda effect); Central Argentina (Córdoba, San Luis, La Pampa); NE Argentina border with Paraguay/Brazil (Posadas, Iguazú)
Cold fronts across southern Brazil, Argentina, Uruguay and Paraguay
No specific hotspot — weather awareness below FL200
Bogotá and Medellín corridors (Andes orographic/mountain wave); ITCZ along routes to Central America and Caribbean



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Thank you!