

Disaster Resilience of Airports

Regional Insights

Global Study of 111 Airports



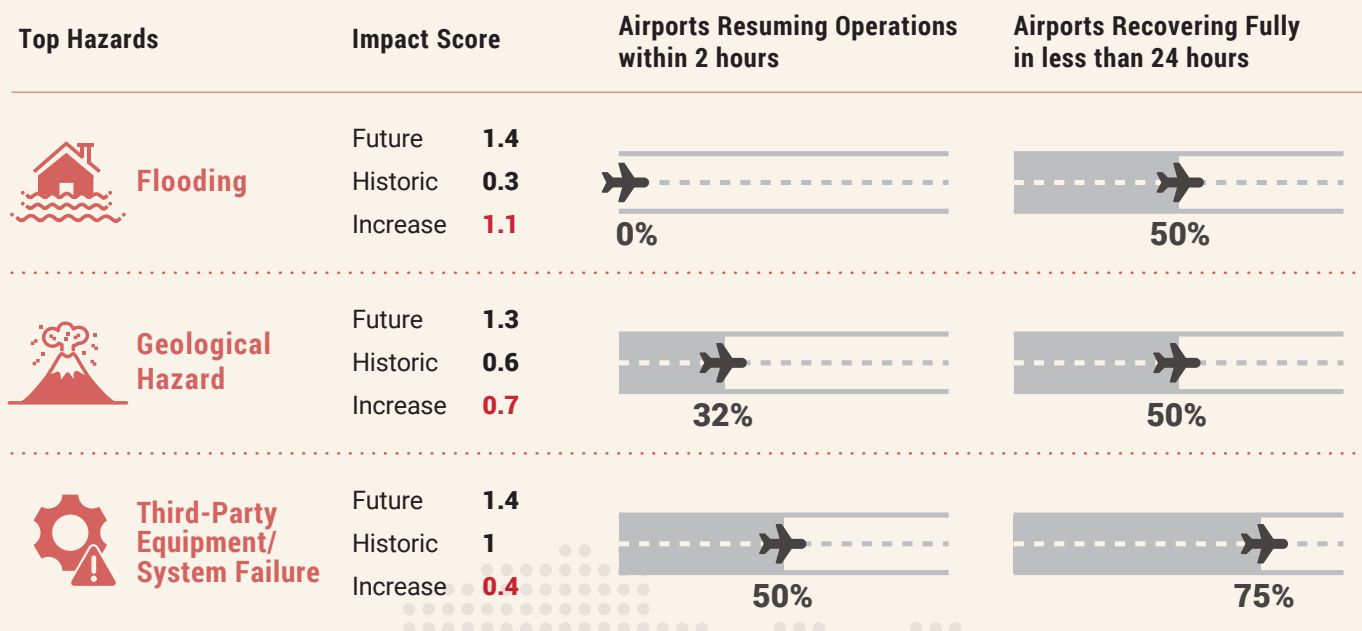
Africa



Combined Score
Severity of Impact

Historic **0.8** | Future **1**

Severity of Hazard Impacts on Airports



Current Practices

Vulnerability Assessment

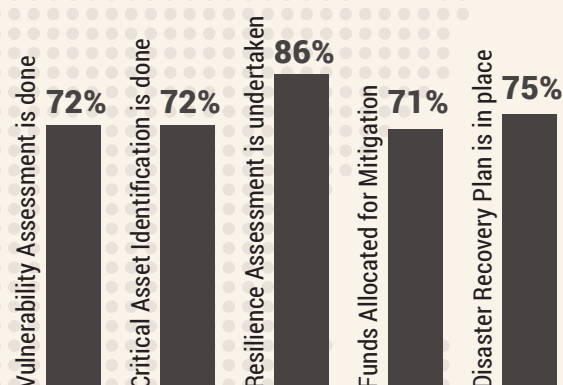


Rank & Practice

- 1 Civil structure/installations (eg. terminal building equipment safety)
- 2 Personnel and passenger infrastructure
- 3 Emergency service operations
- 3 Reliability of operations (eg. closure, flight delays, recovery time)
- 3 Reliability of utility services (eg. water, electricity, sewage)

Source : Figure - 34 Overview of Vulnerability Assessment Practices, page 58

Risk Assessment & Mitigation



Source : Figure - 33 Comparison of risk and resilience practices by region. Page 57

Source : Figure - 36 Overview of Airport Emergency Response Planning and Disaster Recovery Planning practices, page 60

Key Takeaway

Resilience practices in African airports are driven firstly, by user safety considerations, and secondly, by decisions of the executive board, and less by risk assessment.

Asia-Pacific



Combined Score
Severity of Impact

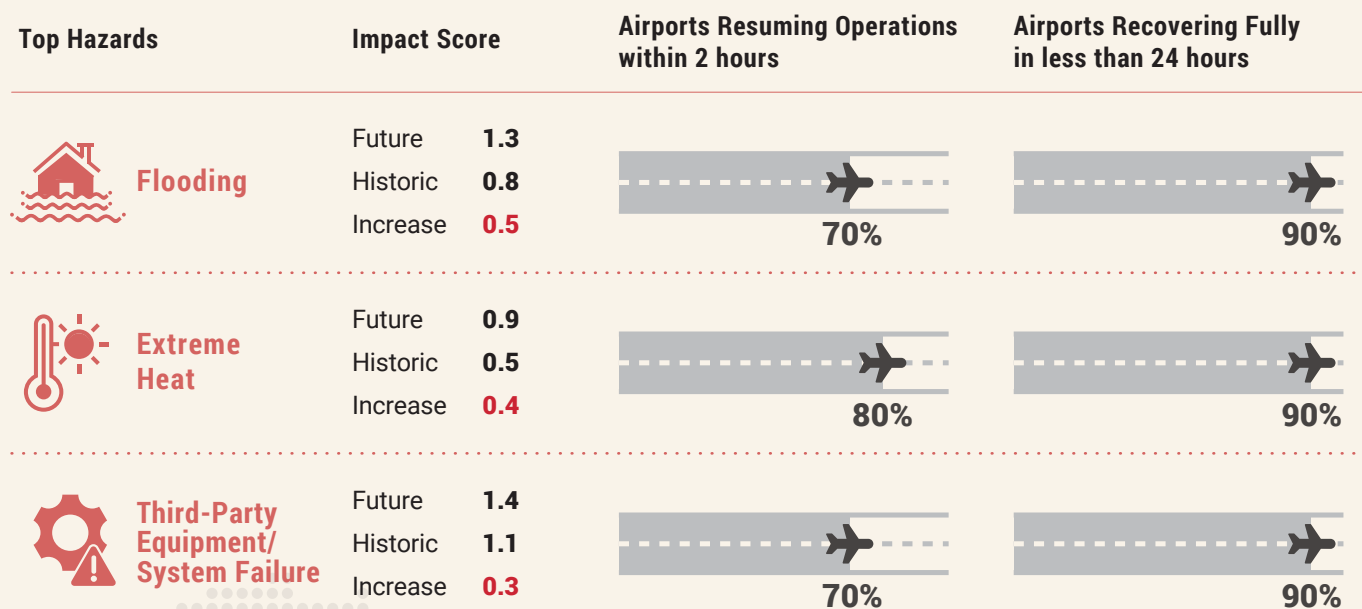
Historic

0.7

Future

0.9

Severity of Hazard Impacts on Airports



Current Practices

Vulnerability Assessment

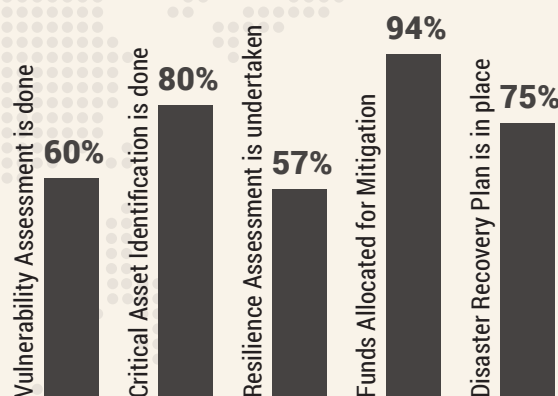


Rank & Practice

- 1 Personnel and passenger infrastructure
- 2 Reliability of operations (eg. closure, flight delays, recovery time)
- 3 Civil structure/installations (eg. terminal building equipment safety)
- 3 Emergency service operations
- 5 Reliability of utility services (eg. water, electricity, sewage)

Source : Figure - 34 Overview of Vulnerability Assessment Practices, page 58

Risk Assessment & Mitigation



Source : Figure - 33 Comparison of risk and resilience practices by region, Page 57

Source : Figure - 36 Overview of Airport Emergency Response Planning and Disaster Recovery Planning practices, page 60

Key Takeaway

Airports in the region are embracing collaboration across stakeholders for improved Emergency Response Plans and coordinated Disaster Management Plans. Most of their Business Continuity Plans also reflect the context of disaster impacts.

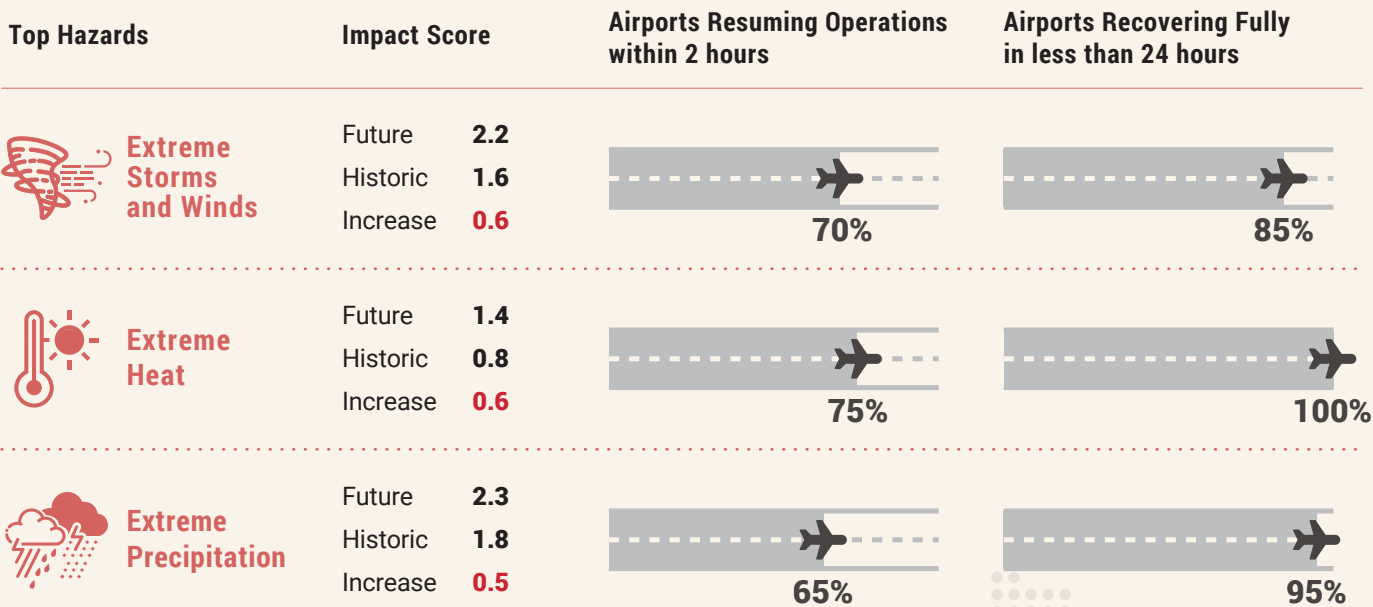
Europe



Combined Score
Severity of Impact

Historic **1** | Future **1.4**

Severity of Hazard Impacts on Airports



Current Practices

Vulnerability Assessment Practices

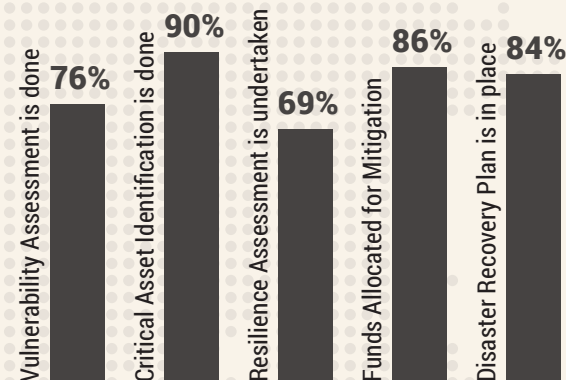


Rank & Practice

- 1** Personnel and passenger infrastructure
- 2** Civil structure/installations (eg. terminal building equipment safety)
- 3** Reliability of operations (eg. closure, flight delays, recovery time)
- 4** Reliability of utility services (eg. water, electricity, sewage)
- 5** Emergency service operations

Source : Figure - 34 Overview of Vulnerability Assessment Practices, page 58

Risk Assessment & Mitigation



Source : Figure - 33 Comparison of risk and resilience practices by region. Page 57

Source : Figure - 36 Overview of Airport Emergency Response Planning and Disaster Recovery Planning practices, page 60

Key Takeaway

Risk Assessment is the priority resilience-driver and ensures shorter resume-and-recovery time in the region. It is noteworthy that several airports are proactive in the inclusion of resilience into master plans and also in insurance of assets.

Disaster Resilience of Airports in Latin America and The Caribbean



Combined Score
Severity of Impact

Historic
1

Future
0.9

Severity of Hazard Impacts on Airports



Current Practices

Vulnerability Assessment

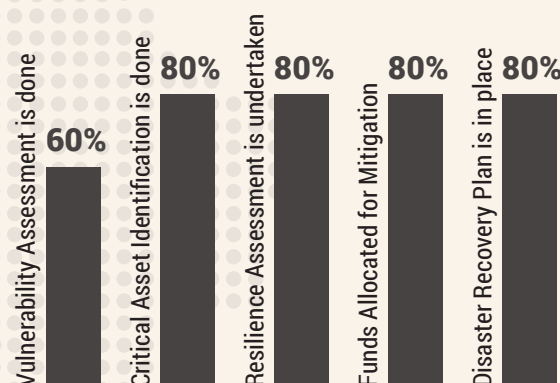


Rank & Practice

- 1 Reliability of utility services (eg. water, electricity, sewage)
- 2 Civil structure/installations (eg. terminal building equipment safety)
- 3 Reliability of operations (eg. closure, flight delays, recovery time)
- 3 Emergency service operations
- 5 Financial impact

Source : Figure - 34 Overview of Vulnerability Assessment Practices, page 58

Risk Assessment & Mitigation



Source : Figure - 33 Comparison of risk and resilience practices by region. Page 57

Source : Figure - 36 Overview of Airport Emergency Response Planning and Disaster Recovery Planning practices, page 60

Key Takeaway

Airports in the region continue operations during hazards or resume swiftly, complemented by strong Emergency Response Plans. Prioritizing government policies, risk assessments and executive leadership thoughts provide crucial direction towards resilience.

Disaster Resilience of Airports in North America

Combined Score Severity of Impact	
Historic	Future
1.4	1.4

Severity of Hazard Impacts on Airports

Top Hazards	Impact Score	Airports Resuming Operations within 2 hours	Airports Recovering Fully in less than 24 hours
 Extreme Heat	Future 2.1	 90%	 100%
	Historic 1.4		
	Increase 0.7		
 Extreme Storms and Winds	Future 2.2	 35%	 80%
	Historic 2		
	Increase 0.2		
 Flooding	Future 1.4	 62%	 12%
	Historic 1.2		
	Increase 0.2		

Current Practices

Vulnerability Assessment

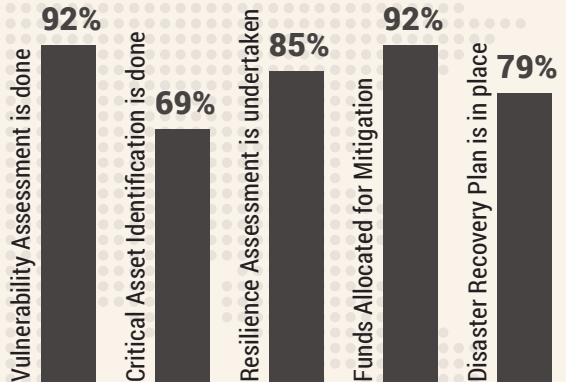


Rank & Practice

- 1 Personnel and passenger infrastructure
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Risk Assessment & Mitigation



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Key Takeaway

With future projections signalling heightened concerns about the severity of hazards, the region excels in integrating disaster impacts within Business Continuity Plans, Disaster Recovery Plans and allocating substantial funds towards risk mitigation.