ICAO SIXTH MID REGION SAFETY SUMMIT 2026

From Disruption to Collaborative Network Decision Making

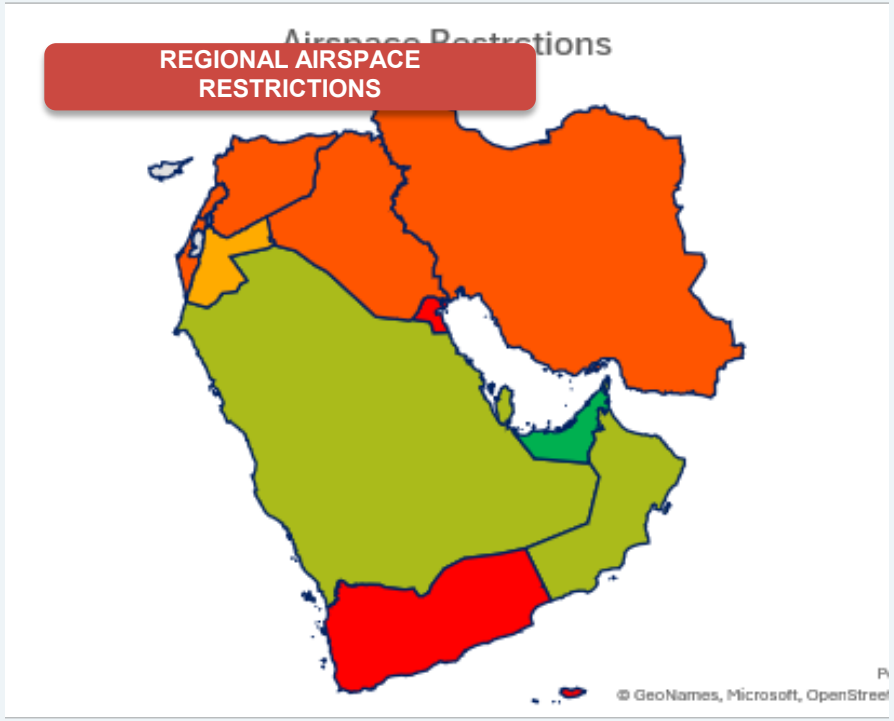
Protecting safety, resilience and continuity across DXB and the wider UAE aviation network

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DAY 2 | BUILDING RESILIENCE AND ADVANCING PREDICTIVE SAFETY

01 | THE CONTEXT

An Unprecedented and Volatile Operating Environment



Operating capacity changed without warning

40 → 20 → 10 → 0
departures per hour as capacity fluctuated

>1,200
daily movements in a near-capacity hub

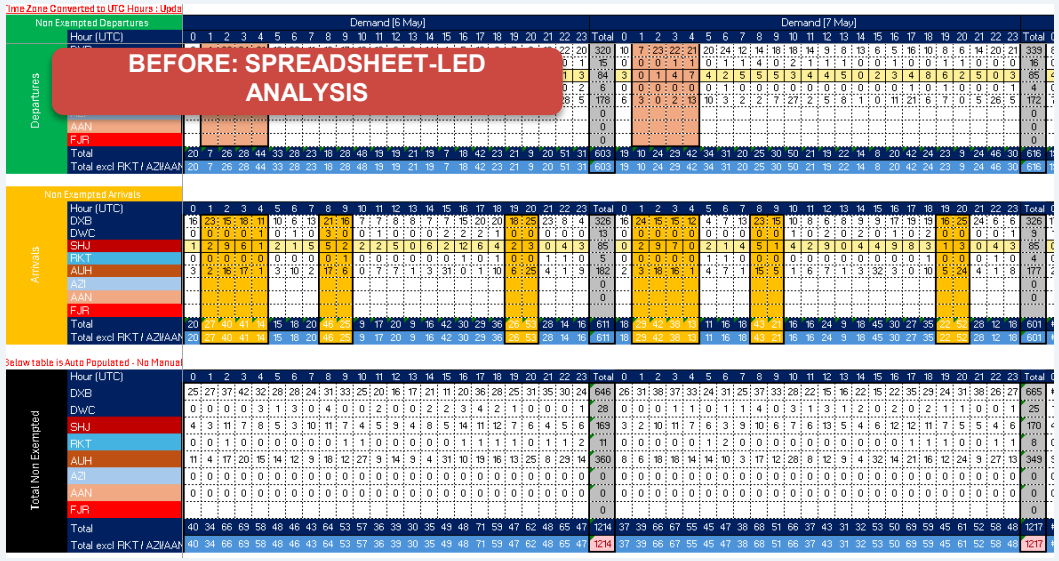
95M
annual passengers dependent on connectivity

Why normal disruption management was no longer enough

- Uncertain closure duration
- Repeated capacity changes
- Network-wide dependencies
- Safety communication urgency

02 | THE PROBLEM

Fragmented Information Created Reactive Decisions



The operating model before establishing the new approach

MULTIPLE SOURCES

Stakeholders were working from different operational views.

SLOW CONSOLIDATION

Manual consolidation delayed understanding of emerging risk.

REACTIVE ACTION

Reactive decisions. Interventions followed pressure instead of getting ahead of it.

UNCLEAR RECOVERY

No shared approach for coordinated recovery.

The need: one trusted operational picture, shared in real time, to support earlier and coordinated decisions.

03 | THE RESPONSE

Collaborative Network Decision Making

A UAE-wide operating model, not a standalone dashboard

ONE OPERATIONAL PICTURE

Demand, schedules, route constraints, risk levels and recovery priorities.

ONE COLLABORATIVE NETWORK

UAE Area Control Center, Air Traffic Service Providers, UAE Airports and National Airlines.

ONE DECISION CYCLE

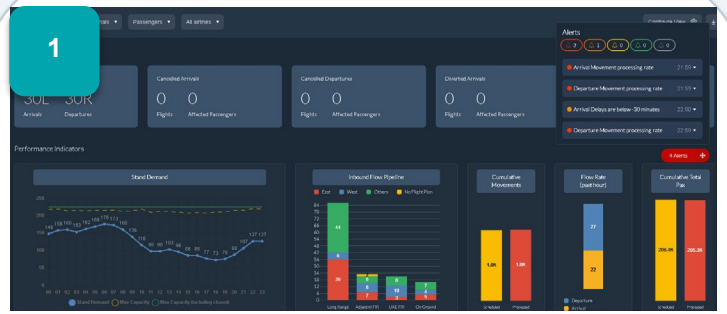
Monitor → anticipate → align → intervene → recover.

FROM fragmented, reactive response → TO predictive, data-led network management

04 | THE INTEGRATED SOLUTION

Three Capabilities Working as One

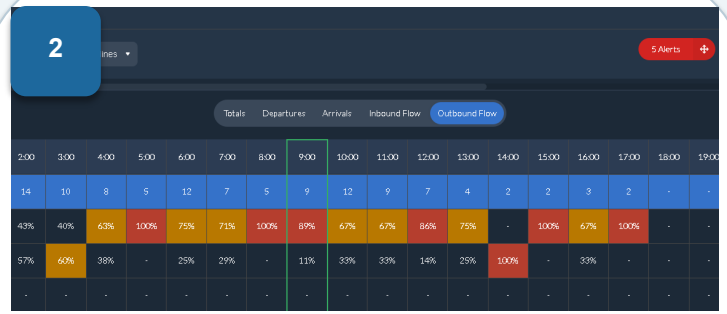
1



UAE TRAFFIC MANAGEMENT PORTAL

One shared view of demand, constraints, disruption impact and recovery.

2



REAL-TIME DEMAND MONITORING

Route utilization, predicted congestion and safe capacity balancing.

3



SAFETY-ALERT MESSAGING

Risk level, expected impact and required actions through digital and SMS channels.

05 | HOW IT WORKS

Turning Live Data into Coordinated Network Decisions

MONITOR
Demand, capacity, routes and risk associated

ANTICIPATE
Congestion, overload and operational impact

ALIGN
Shared constraints and recovery priorities

ACT
Schedules, routing, resources and safety controls

RECOVER
Restore stable capacity and connectivity

Collaborative decision network

- UAE Area Control Center
- Air Traffic Service Providers
- UAE Airports
- National Airlines
- Airport Community

Decision principle: balance airport demand with the traffic level that the airspace and airports can safely manage.

06 | EVIDENCE OF RESILIENCE

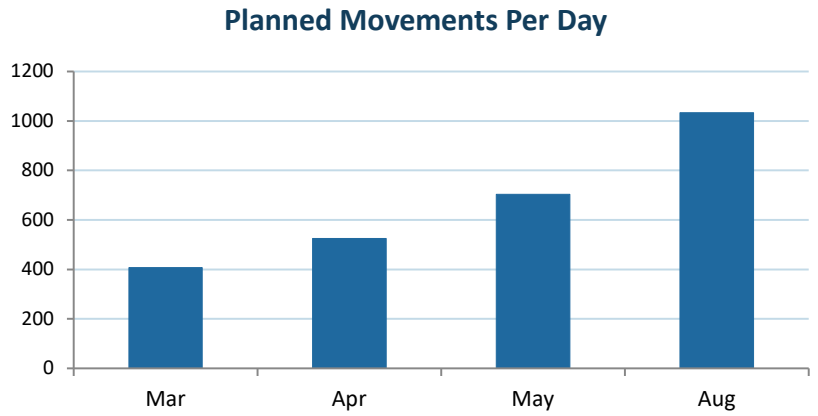
More Predictable Operations, Lower Risk, Faster Recovery

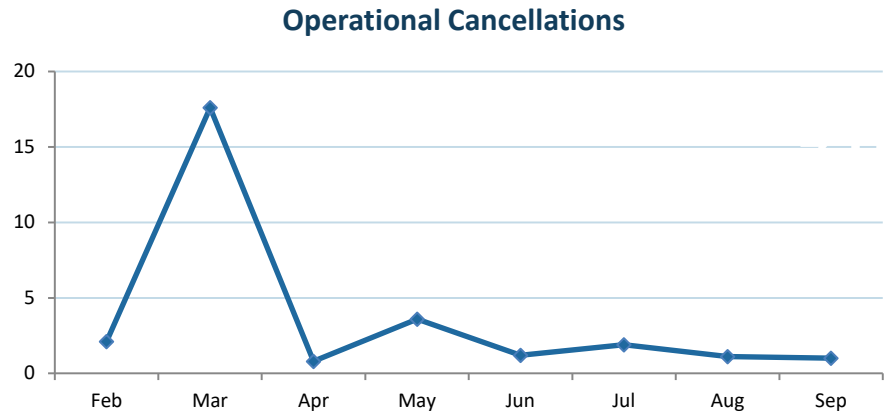
407 → 1,034/day
planned movements from March to August

18% → <1%
operational cancellations

3/day → <1/day
arriving-aircraft diversion risk

65 of 102
alerts managed without full suspension





07 | THE RESILIENCE LESSON

From Crisis Tool to Enduring Network Capability

REACTIVE

Fragmented data and late interventions

COLLABORATIVE

One picture and aligned decisions

PREDICTIVE

Forecast risk and intervene earlier

NETWORK-OPTIMISED

Scenario modelling and intelligent alerts

Operational resilience is strengthened when the network can see the same risk, act on the same priorities and prepare before pressure reaches its peak.

CNDM provides a scalable foundation for UAE Network Management, predictive analytics and Total Airport Management.

THANK YOU

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Operational resilience begins with shared awareness and coordinated action.