Amach's
Daily Ops Stability Dashboard

Providing airlines with realtime and historical visibility into key operational metrics to rapidly detect issues, optimize decisionmaking, and improve OnTime Performance (OTP).

Problem Statement

Airline operations teams lack a unified, realtime system to monitor flight punctuality, delay codes, and disruption management metrics. This gap hinders proactive decision making, leading to inefficient cancellations or diversions, reduced passenger satisfaction, and financial losses from extended delays and recovery costs.

Key Issues:

	Problem	Solution
Data Quality & Integration	Inaccurate, incomplete, or siloed data prevents reliable KPI calculation.	Implement robust data governance and ETL processes to cleanse, validate, and consolidate multi-source inputs.
Timelines	Delayed data updates impede swift operational responses.	Deploy streaming data pipelines and realtime connectors to ensure dashboards refresh instantly.
Stakeholder Alignment	Disagreement over which KPIs matter leads to inconsistent reporting and action.	Facilitate crossfunctional workshops to define and agree upon a standardized KPI set.
Technology Constraints	Legacy systems lack APIs or realtime feeds.	Leverage middleware and AI driven data extractors to interface legacy systems with modern dashboard platforms.

Solution Overview
Dashboard Implementation

RealTime Monitoring:
Tracks flight statuses, delay codes, and door targets (open/close) automatically.
Highlights anomalies, e.g., delays > 2 hours for immediate attention.

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Alerts & Notifications:
Configurable thresholds trigger email/SMS notifications for emerging disruptions.
Prioritizes "cancel candidate" and "diversion candidate" flights based on predictive scores.

Performance Metrics & Historical Trends:
Displays OTP (Departure/Arrival within 15 min), cancellations, diversions, and delay distributions.
Allows drill-down into historical trends for root cause analysis.

Customizable Views:
Users tailor dashboards by station, fleet type, or disruption category.
Saved views ensure each operations role sees relevant KPIs at a glance.

AI Driven Predictive Analytics:
Forecasts potential delay and cancellation candidates using weather, ATC, and maintenance data.
Suggests optimal recovery actions - crew reassignments, aircraft swaps, and rerouting.

Key Features

Critical Flight Predictions:
Identifies flights at risk of cancellation.

Comprehensive Delay Codes:
Breaks down delay reasons, e.g ATC.

Cancel Candidate Scoring:
Ranks flights likely to require cancellation to minimize knock-on.

Door Target Tracking:
Monitors cabin door open/close timings to streamline turnarounds.

Diversion Options:
Alternative airports or holding patterns to preserve schedule.

Cancellations & Diversions:
Logs all cancellations/diversions with context for cost analysis.

Benefits & Business Impact

Enhanced Operational Efficiency
Minimizes delay related costs by enabling rapid, data driven decisions on cancellations and diversions.

Increased Passenger Satisfaction
Lowers disruption impact with timely notifications and optimized recovery plans.

Improved OTP
Boosts ontime departures and arrivals through proactive disruption management.

Data Driven Insights
Enables continuous improvement via historical analysis and trend forecasting.

Cost Savings
Reduces fuel burn, crew overtime, and passenger reaccommodation expenses.

Scalable, Cloud Ready Platform
Supports growing data volumes and realtime demands with elastic, cloud based architecture.

Ready To Learn More?

Implement **Amach's** Daily Ops Stability Dashboard to gain centralized, realtime control over your airline's operational stability. Enhance OTP, reduce costs, and elevate passenger experience, powered by AI and advanced analytics.

Contact Us

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