# **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

### Kev Issues:

Data Quality &

Integration

### Problem

### Inaccurate, incomplete, or siloed data prevents reliable KPI calculation.

### Implement robust data governance and ETL processes to cleanse. validate, and consolidate multisource inputs.

Solution

**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

Leverage middleware and AI driven data extractors to interface legacy systems with modern dashboard platforms.

Solution Overview

# **Dashboard Implementation**



### RealTime Monitorina:

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

## Alerts & Notifications: Configurable threshold

Configurable thresholds trigger email/SMS notifications for emerging disruptions.

Prioritizes "cancel candidate" and "diversion candidate" flights based on predictive scores.

### Customizable Views:

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



Displays OTP (Departure/Arrival within 15 min), cancellations, diversions, and delay distributions.

Allows drill-down into historical trends for root cause analysis.

### Al 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.



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



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



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



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



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



### Improved OTP

Boosts ontime departures and arrivals through proactive disruption management.



Cost Savings Reduces fuel burn, crew over (0)

## Increased Passenger Satisfaction

Lowers disruption impact with timely notifications and optimized recovery plans.



### Data Driven Insights

Enables continuous improvement via historical analysis and trend forecasting



### 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 Al and advanced analytics.

## Contact Us

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