

AuraPlate

AI-Powered Catering Intelligence For Airlines

Every year, airlines lose an estimated 2.34 million tonnes of food to over-catering and mismatched meal loads — costing the industry up to US\$6 billion annually. It isn't a catering problem. It's a data problem — and it's solvable.

2.34M tonnes
airline food & beverages
wasted annually

US\$5-6B
estimated annual cost
to the industry

US\$0.5-5M
potential annual savings,
depending on airline size

Up to 30%
potential food waste
reduction



The Challenge Airlines Face

- Over-catering as the default safeguard
- Meal shortages on high-demand routes
- Last-minute catering changes
- Fuel burned carrying excess weight
- Manual, spreadsheet-based planning rather than predictive data



Why Traditional Forecasting Falls Short

Conventional catering forecasts are built on historical route averages, refreshed periodically and adjusted by hand. They don't account for:

- cabin-class mix,
- real-time booking shifts,
- day-of-week and seasonal effects, or
- what passengers actually eat versus what's loaded.

The result is a structural mismatch between what's uplifted and what's needed — repeated on every flight, every day, across the network.

AuraPlate is an AI-powered food intelligence platform purpose-built for airlines. It connects catering data, flight schedules and passenger information to predict how many meals to load — by cabin class, route and cultural calendar event — then learns and improves after every flight.

Predictive Meal Demand Engine

Forecasts consumption by flight, route and cabin, factoring in seasonality and cultural events.

Real-Time Rebalancer Agent

Provides operational recommendations, including redistribution, inventory optimisation and post-flight waste reporting.

Aura Vision AI

Scores meal tray images for portion size, presentation and weight risk.

WHAT AURAPLATE DOES

What-If Calculator

Instantly quantifies operational cost, waste and fuel impact before deployment by simulating different catering load scenarios from uploaded forecast data.

Menu Co-Designer

Recommends swaps that passengers actually prefer, based on historical use-case data, reducing returns and complaints.

Sustainability Dashboard

One-click ESG and carbon reporting, ready for board and regulator review.

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ESG BENEFITS

- **Carbon savings** — directly tied to reduced uplift weight and fuel burn.
- **Food waste reduction** — tracked and reported in kilograms, by route and fleet.
- **CORSIA and ESG alignment** — supports carbon offsetting and sustainability disclosure requirements.
- **One-click ESG reporting** — board- and regulator-ready output, no manual compilation.

ESTIMATED BUSINESS VALUE

KPI	Potential Improvement*	Why It Moves
Food Waste	15–30% reduction	Cabin-level demand prediction
Catering Cost	5–12% reduction	Right-sized uplift per flight
Fuel Burn	Reduced	Lower uplift weight, network-wide
Meal Availability	Improved	Fewer shortages on high-demand legs
ESG Score	Enhanced	One-click, audit-ready reporting
Passenger Satisfaction	Improved	Fewer meal shortages, better menu fit

*Indicative estimates. Actual results vary by airline, network, fleet and data quality.

WHERE WE ARE TODAY

AuraPlate was officially launched during the IATA AGM Rio 2026 and is now available for demonstrations and commercial deployments. The platform is currently being presented to leading international airlines for evaluation and implementation discussions.

TECHNICAL SPECIFICATIONS

Microsoft Azure Cloud

- AI/ML Prediction Engine
- Computer Vision (Aura Vision AI)
- REST API Integration
- Passenger & Catering Data Integration
- Role-Based Access Control
- Real-Time Dashboards
- Power BI Analytics
- Multi-Airline / Multi-Hub Support
- Enterprise Security (Azure Key Vault, Microsoft Entra ID, TLS Encryption)
- Scalable Cloud-Native Architecture

Why AdiNex AI

AdiNex AI is a Singapore-based Geo AI solutions company and IATA Strategic Partner, trusted by governments, municipalities and the aviation sector to turn complex operational problems into proven, deployable solutions.



STRATEGIC ALLIANCES



AURAPLATE™ — SMARTER CATERING | BETTER MARGINS | GREENER SKIES

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