

**AOG Shield turns your existing maintenance and inventory exports into a ranked, explainable list of the parts most likely to ground an aircraft next — and exactly what to do about each one — before it happens.**

## THE PROBLEM

Parts-driven AOG (Aircraft on Ground) events are expensive and largely **detectable earlier** — they come from local stockouts, station imbalance, long supplier lead times, repeat write-ups, and certificate gaps. The signal already lives in your operation, but it is scattered across M&E, inventory, scheduling, and supplier systems, and surfaces too late — when the aircraft is already on the ground.

## WHAT YOU GET

### Explainable risk scores

0–100 scores for aircraft, stations, parts, and suppliers — each score shows its drivers.

### Prioritized recommendations

Specific actions — transfer, source, repair, borrow, review — with the reasons and expected impact.

### AOG Readiness Report

An executive-ready PDF plus an interactive dashboard your team can act on and share.

## HOW IT WORKS

- 1 Ingest data** — public aviation data (FAA SDR) plus your anonymized exports.
- 2 Engineer signals** — parts reliability, station criticality, inventory health, lead-time risk.
- 3 Calculate AOG risk** — an explainable, weighted, deterministic model (not a black box).
- 4 Generate recommendations** — prioritized actions with the evidence behind each one.
- 5 Deliver insight** — dashboards and the AOG Readiness Report for fast, confident decisions.

## WHY IT'S DIFFERENT

- **Explainable, not a black box.** Every score shows its drivers; every recommendation shows its evidence.
- **No integration to start.** The first diagnostic runs on anonymized CSVs — low IT and trust friction.
- **Decision-support by design.** We don't determine airworthiness or certify compliance — your certified people make every call.
- **Outcome-focused.** We sell fewer avoidable AOGs and earlier warning — not "AI."

## VALIDATION (SYNTHETIC DEMO)

**0.64**

ROC-AUC

**2x**

LIFT @20

**0.73**

RECALL @50

**~12d**

MEDIAN LEAD

**2%**

FALSE-POS REVIEW

Measured on synthetic labels to demonstrate workflow validity — not a real-world accuracy claim. A paid pilot validates these metrics against your own AOG history.

## HOW TO START — A FREE AOG READINESS DIAGNOSTIC

Send anonymized exports; we return a report naming your real risk concentrations. Tail numbers, supplier/employee/customer names, and prices can all be masked.

aircraft.csv  
stations.csv  
parts\_master.csv  
inventory.csv  
work\_orders.csv

aog\_events.csv  
supplier\_quotes.csv  
purchase\_orders.csv  
certificates.csv  
aircraft\_schedule.csv

**Request a diagnostic:** [eltonc@ashesystem.com](mailto:eltonc@ashesystem.com) · [ashesystem.com](https://ashesystem.com)

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AOG Shield is a decision-support and risk-advisory system. It does not determine airworthiness, approve parts for installation, certify regulatory compliance, or replace human maintenance, quality, or planning review.

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