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# AXIOM

Airline ops substrate

Regulator-grade operating truth for dispatch, crew, tech, safety, and ATC/ANSP integration.

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# The broken layer

Airlines reconcile truth through fragmented systems, email, screenshots, spreadsheets, and manual evidence packs.

That is expensive on a good day and dangerous during disruption, audit, safety, labour, or regulator events.

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# Why now

FF-ICE/R1, CP1 AF6, NIS2/Part-IS, SMS evidence burden, and AI-floor build leverage are converging.

The operator that owns reconstructable truth gets a structural advantage.

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# Doctrine

CRM · TEM · Human Factors · no side process ·  
compartmentalised integration · airline-agnostic config.

AXIOM treats operational reality as signed data, not hidden  
app logic.

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# Architecture

P01–P10 foundation + M01–M24 operations + M73–M84  
ATC/ANSP + AXIOM-IQ.

One substrate. Many compartments. Every mutation  
accountable.

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# Phase-0 proof

82/82 validators · 7/7 adversarial CI blocked · chaos drill passed · replay kit passed.

This is not a slideware claim. The spine already runs.

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# Audit chain

P05 chain seeded with verify/head/reconstruct commands.

Evidence is append-only, tenant-scoped, and replayable.

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# Rules-as-data

Cedar/YAML packs, source-clause maps, signed promotion, effective-date control.

Regulatory and labour rules become inspectable data, not buried code.

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# Operational modules

Dispatch, crew, tech/CAMO, SMS/AVSEC first. Commercial and enterprise later.

AOC-critical flows before nice-to-have dashboards.

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# Regulatory posture

Bridge-and-translate with  
FIXM/AIXM/IWXXM/SWIM/ARINC/IATA compatibility.

AXIOM fits into aviation reality instead of pretending to  
replace it overnight.

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# P0.5 demo

/app proof room, audit head, adversarial CI badge, replay, regulator pack, phase Gantt.

The five-minute story is now a visible product surface.

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# Design-partner ask

LoS, MoU, or technical review — not production onboarding yet.

Support the funded Phase-1 build if the evidence direction is credible.

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# Funding path

EIC first. SESAR3 if consortium opens. PT2030/SIFIDE if Portugal anchor moves within 60 days.

Funding follows proof + support letters, not vibes.

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# Roadmap

P0.5 package → Phase 1 operate → Phase 4 audit gate →  
Phase 5 productise.

External trust is a gate, not a marketing claim.

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# The ask

One support letter, one consortium intro, one regulator/operator review.

Help turn Phase-0 proof into Phase-1 operational runtime.