

ASPIRE SYSTEMS · DATABRICKS PARTNER PRACTICE

Insurance AI on Databricks

From intelligent claims automation and real-time fraud detection to underwriting AI and Solvency II-compliant data governance — Aspire Systems delivers production-grade insurance platforms on Databricks for P&C, Life, and Health carriers globally.

Client Outcome
Top-5 P&C Insurer (EMEA)

70%

Faster claims
cycle time

3×

Fraud detection
improvement

£8M

Fraud leakage
eliminated

94%

Straight-through rate

AI Claims & Fraud Intelligence Platform ·
12 source systems unified on Databricks
Lakehouse · Agentic AI straight-through
processing deployed



60+

CERTIFIED
ENGINEERS

AWS
AZURE
GCP

P&C
LIFE
HEALTH

LAKEBRIDGE
IP — 40%
FASTER

Claims
Intelligence &
Automation

Underwriting,
Pricing & Risk AI

Fraud Intelligence &
Data Platform

Mosaic AI
Agentic AI · GenAI



Claims Intelligence & Automation AI

AI Triage & Severity Scoring

FNOL data scored on Mosaic AI – intelligent routing of low, medium, and complex claims from first notification of loss.

Agentic Straight-Through Processing

Autonomous Agentic AI on Databricks workflows driving end-to-end straight-through processing for low-severity claims – 94% STP rate delivered.

GenAI Document Intelligence

Extracting, validating and routing claims forms, medical records, and supporting documents at scale – fully automated on FNOL workflows.

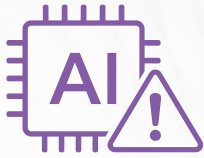
Subrogation Recovery AI

Propensity models trained on Delta Lake claims history – identifying subrogation opportunities and prioritizing recovery actions automatically.

**Delivered
Outcome**

70%

Faster claims cycle time via Agentic AI straight-through processing – 94% STP rate achieved



Underwriting, Pricing & Risk AI

Risk-Based Dynamic Pricing

Databricks AutoML and Feature Store powering dynamic pricing models – continuously updated on live risk signals for accurate premium setting.

Telematics & IoT Underwriting

Usage-based insurance programs on DLT – processing telematics and IoT data streams in real-time for live risk assessment and pricing.

Reinsurance Portfolio Optimization

Portfolio risk and optimisation models built on Spark at enterprise scale – enabling reinsurance teams to stress-test and rebalance efficiently.

GenAI Policy & Renewal Automation

AI-powered policy summarization, coverage gap detection, and renewal automation – reducing underwriter effort and improving retention rates.

AI ANALYSIS



Fraud detection
improvement – real-time
Graph AI and Mosaic AI
scoring on the Databricks
Lakehouse

3x

Delivered
Outcome



Fraud Intelligence & Data Platform

Real-Time Fraud Network Analysis

Graph AI on the Databricks Lakehouse — detecting organized fraud rings, identity linkages, and anomalous claim patterns at millisecond latency.

Customer 360 for Lapse & Churn

Unified customer intelligence platforms for lapse prediction, churn scoring, and cross-sell propensity — powering retention and growth campaigns.

Migration via Lakebridge IP

Informatica and DataStage pipelines migrated to Databricks DLT — 40% faster go-live, zero data loss, automated reconciliation guaranteed.

Solvency II & IFRS 17 Compliance

Unity Catalog delivering end-to-end data lineage, RBAC, and automated compliance reporting — fully auditable and always-on for carriers.

**Delivered
Outcome**

£8M

Annual fraud leakage eliminated — real-time fraud scoring at 94% detection accuracy deployed in production



RBAC & Attribute-Based Access

Solvency II

IFRS 17

GDPR

Regulatory Coverage

HIPAA

Automated Audit Trails

GDPR

Column-Level Masking

Unity Catalog Lineage

How We Deliver

01

Discover & Assess

AI maturity, use case scoring, ROI modelling & Lakehouse blueprint

02

Architect & Design

Unity Catalog, AI model selection & governance framework design

03

Build & Migrate

Agile sprint teams, Lakebridge migration & AI pipeline engineering

04

Deploy & Operate

MLOps rollout, user enablement & 24x7 platform operations

05

Optimize & Scale

Continuous model improvement & new use case onboarding

Aspire Systems — Your Insurance AI Partner on Databricks

Claims Automation · Fraud Intelligence
· Underwriting AI · Solvency II & IFRS 17
Governance · Unified Lakehouse

[Request a discovery call →](#)

About Aspire Systems

Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

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