



Modernizing Industrial Intelligence

**Platform Transformation with
Azure AI**

The Challenges



Legacy Constraints Hindering Growth & Innovation

Monolithic Architecture

Tightly coupled system causing full redeploys for minor updates

System Fragility

Single point of failure risked global platform outages

Security Gaps

Direct DB/web-app access exposed critical data

Operational Drag

Manual deployments, zero CI/CD, and weeks of downtime per release

AI Capability Gap

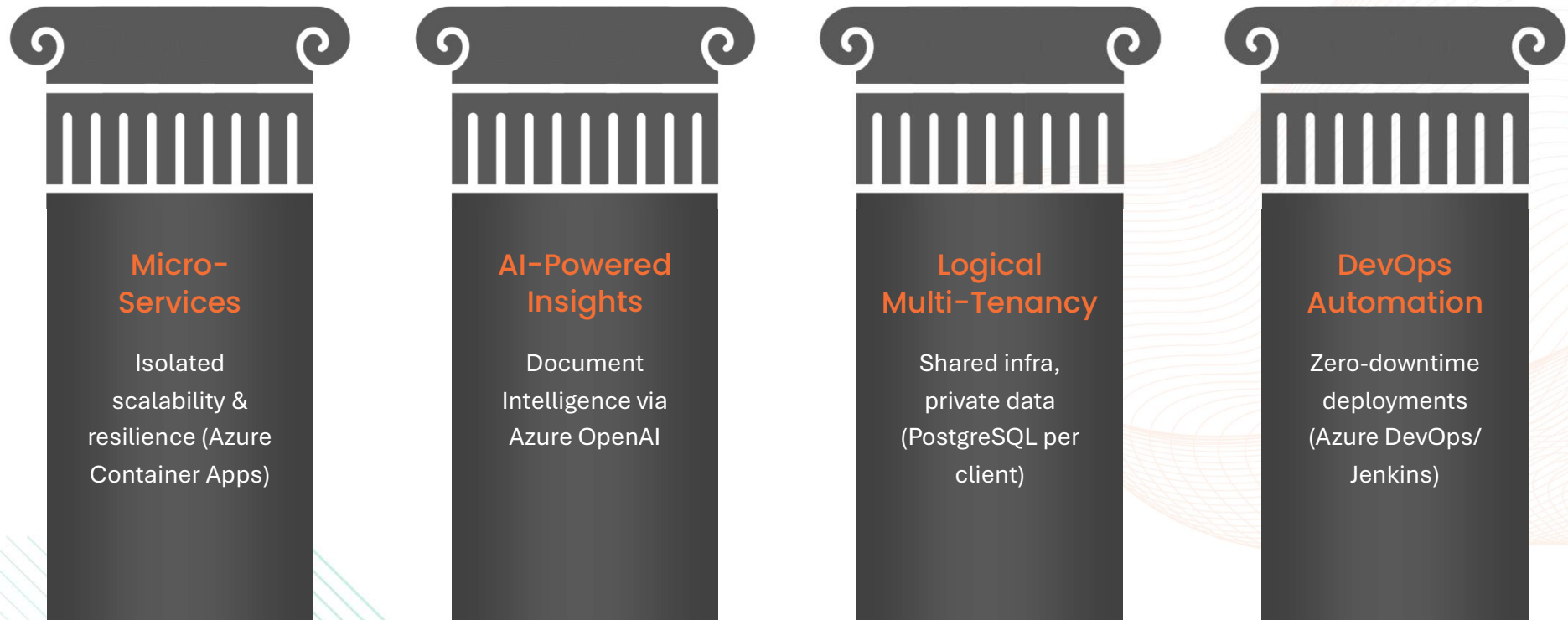
No path to integrate GenAI for next-gen insights

The Vision



Reimagining : Cloud-Native, AI-Driven, Multi-Tenant SaaS

Core Pillars

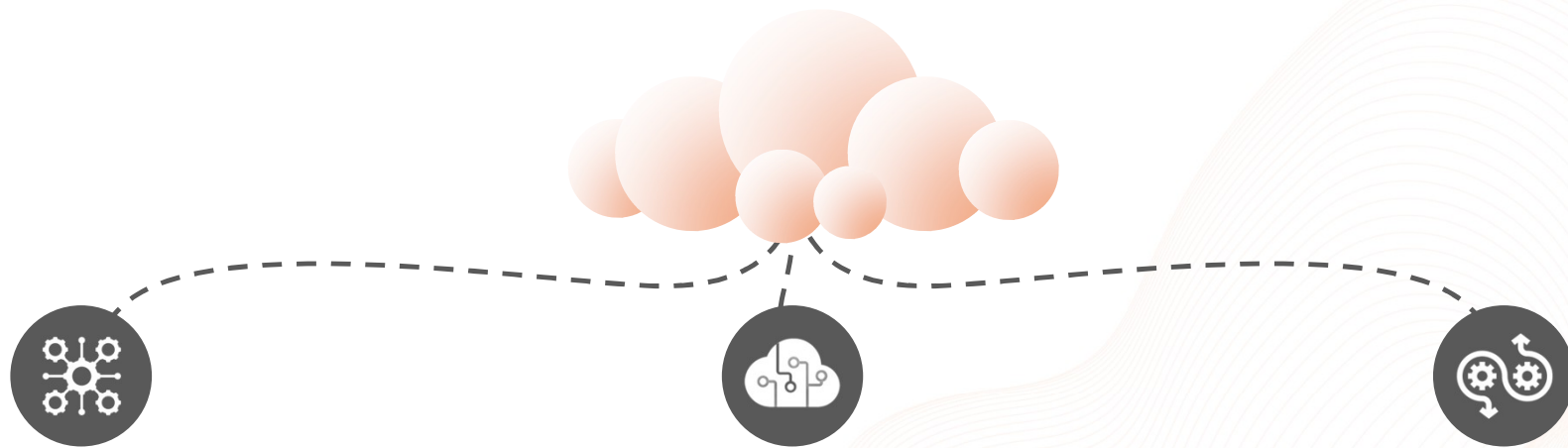


Optimize. Automate. Transform

sales@bizmetric.com

The Solution

Cloud-Native Modernization + GenAI Integration



Monolith → Microservices

- Decomposed legacy app into containerized services (Azure Container Apps)
- Per-client PostgreSQL databases for isolated multi-tenancy
- AKS for orchestration (MVP)

Embedded Azure AI

- Azure OpenAI Service for document intelligence (PDF/scan parsing)
- Cognitive Search for semantic queries across unstructured data
- Chat-based self-service replacing manual workflows

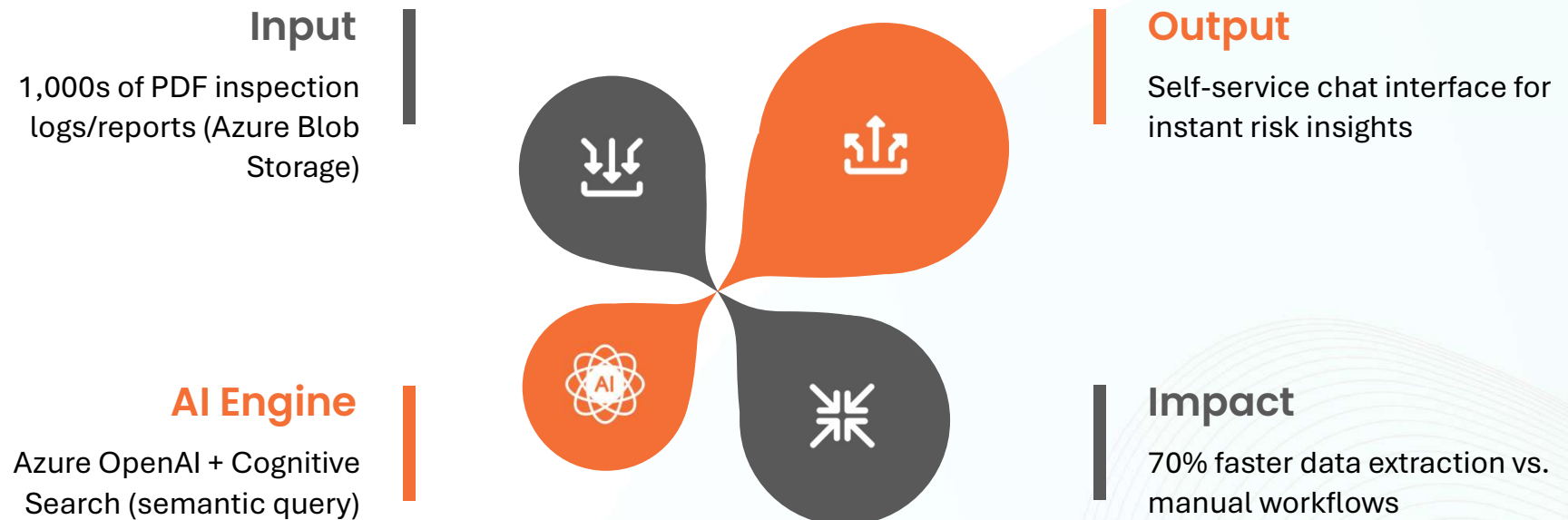
DevOps Automation

- CI/CD pipelines via Azure DevOps + Jenkins
- Zero-downtime deployments + rollback capability
- Infrastructure-as-Code (IaC) templates

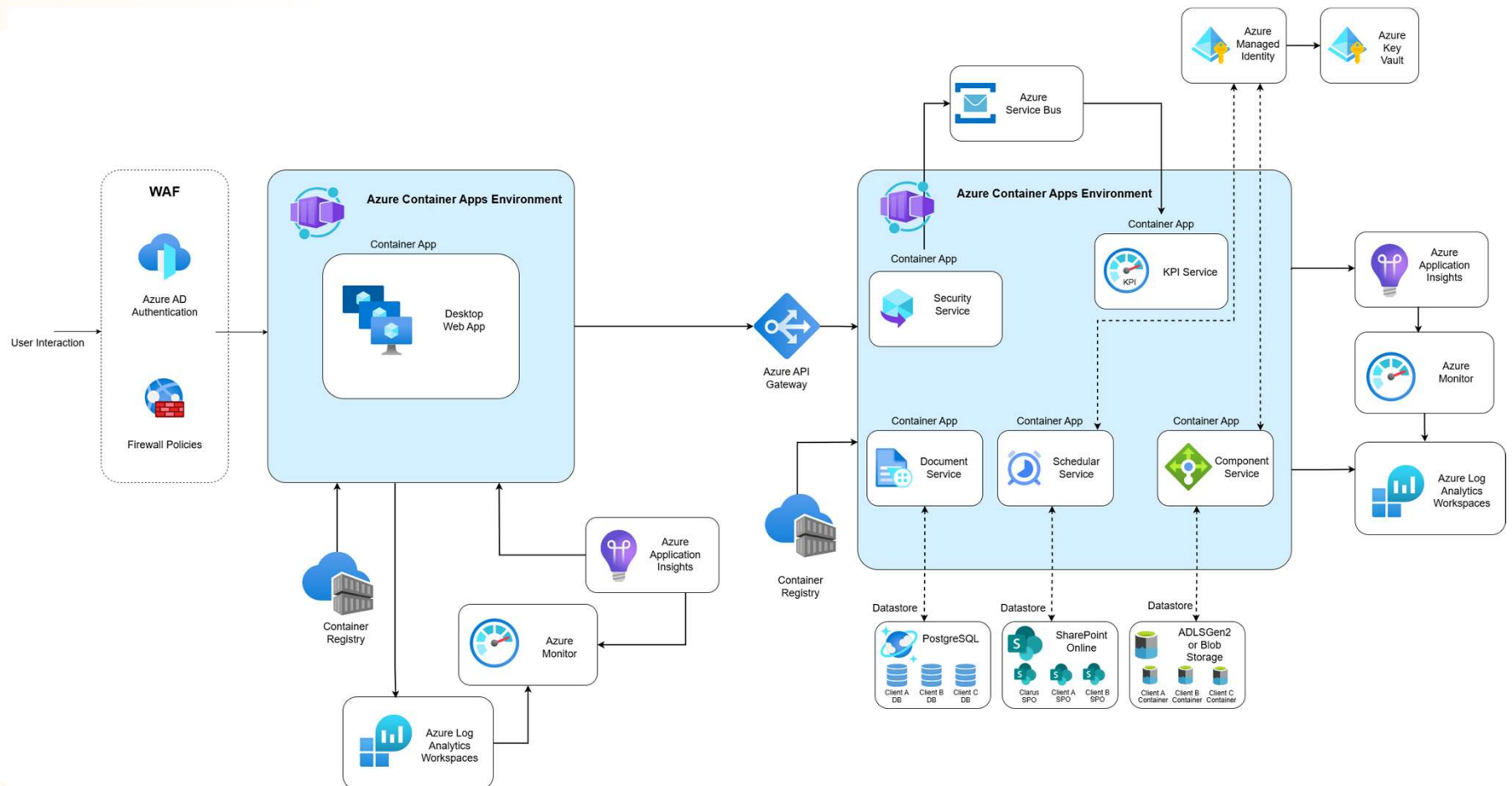
AI Transformation Spotlight

Turning Unstructured Data into Conversational Intelligence

Azure-Powered Document Intelligence Chatbot



Azure Architecture



Quantifiable Impact



Delivering Tangible Business Value

99.9% Uptime

Fault-tolerant microservices +
load balancing

40–50% Faster Releases

DevOps automation + reusable
templates

Cost Efficiency

Shared compute/storage + per-
client data isolation

Enhanced Security

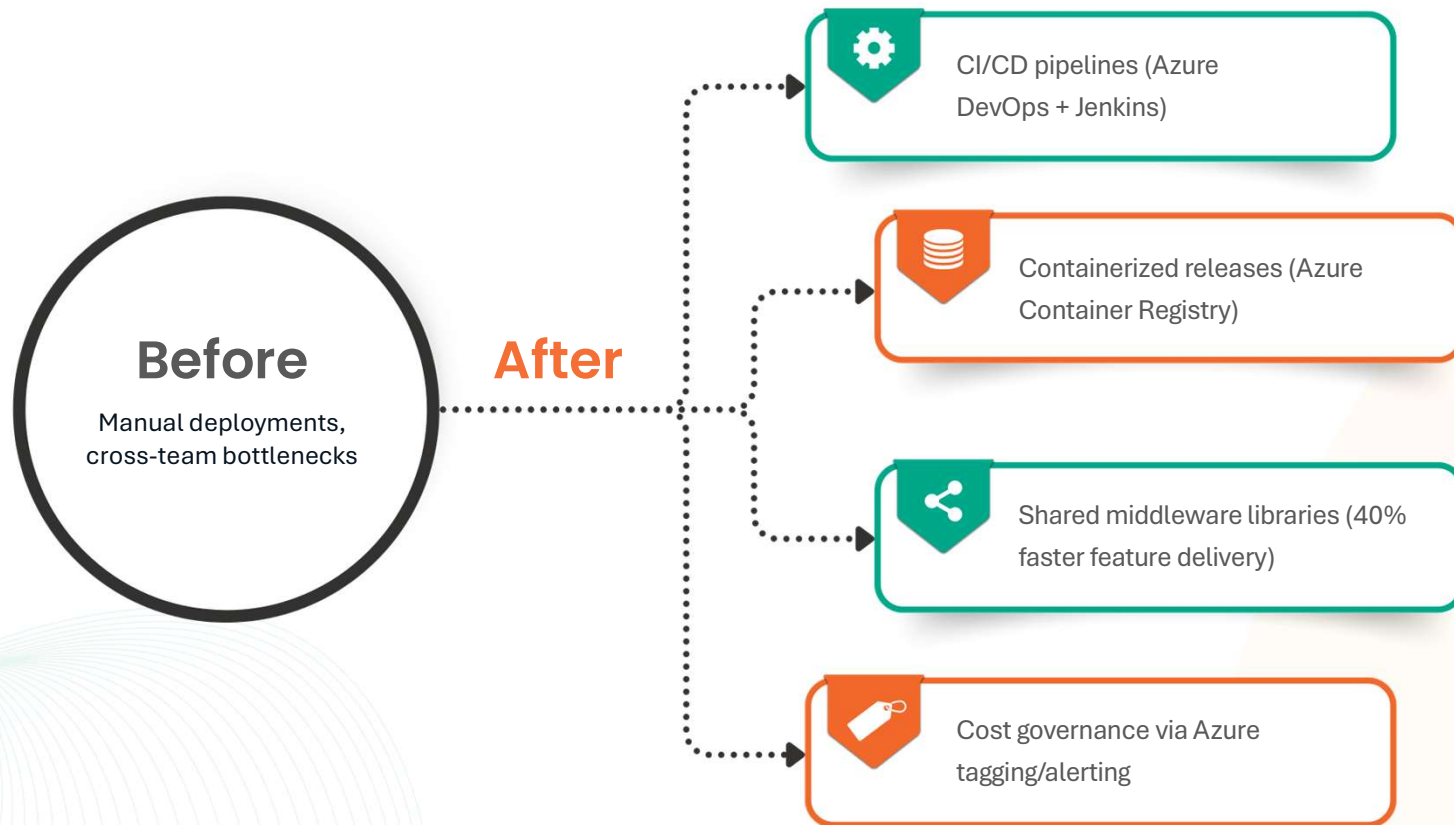
Enterprise-grade compliance (Key
Vault, VNet)

AI Productivity

Field engineers query complex
data via chat vs. manual PDF
review

DevOps Revolution

Engineering Velocity Transformed



Thank You!

Get in touch

 marketing@bizmetric.com

 www.bizmetric.com

Address

Biz-Metric Partners Inc, 1650
Highway 6, Suite 130, Sugar
Land, TX 77478

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Call us on: (832) 742-9957