



CASE STUDY

HEALTHCARE ON A MODERN DATA FOUNDATION

A global biopharma enterprise with over 30,000 employees transformed its fragmented analytics environment into a unified, cloud-based data foundation using KPI DataBridge Suite.

This transformation showcases how a modern data foundation can power precision, efficiency, and growth in global healthcare.

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Case Study: Healthcare on a Modern Data Foundation

A global biopharma leader modernized and unified its analytics ecosystem, moving from fragmented legacy systems to a scalable cloud architecture. Using **KPI DataBridge Suite**, they enabled clinical, financial, and operational teams to make data-driven decisions with confidence.

To stay agile in a highly regulated and data-intensive industry, this global biopharma leader undertook a large-scale transformation of its data and analytics landscape. The initiative focused on modernizing ERP analytics, building a scalable data mesh, and enhancing clinical trial intelligence—unifying systems across business, financial, and clinical domains to enable smarter, faster decision-making.

Business Drivers

Connect Fragmented Data: The fragmented data landscape included legacy Oracle EBS, disconnected clinical systems, and manual ETL processes. These silos limited the ability of business users and clinical teams to access timely, reliable insights, causing delays in decision-making, inefficiencies in operations, and risks to compliance.

Real-Time Clinical Trial Analysis: Transform clinical trial intelligence into a centralized, governed platform with real-time visibility.

Modernize ERP and HR Analytics: Migrate key systems to Databricks and Power BI

Self-Service Analytics: Build a scalable data mesh to enable self-service data product creation across 30+ source systems.

At A Glance

Client: Global Biopharmaceutical Company

Industry: Pharmaceutical & Biotechnology

Location: Global

Employees: 30,000+

Revenue: \$5.4 billion USD

Results

Faster Data

30-50%

Enabled near real-time analytics across 16 operational modules by replacing manual ETL with automated pipelines.

Cost Reduction

40%

Optimized cloud resource management and streamlined operations reduced infrastructure and operational costs.

Availability

99.99%

Engineered architecture ensured continuous system uptime for dashboards, pipelines, and advanced analytics environments.

Adoption Increase

50%

Unified and user-friendly dashboards boosted engagement among clinical and financial teams, accelerating decision-making.

Faster Launch

4x

Leveraging KPI's reusable frameworks and prebuilt accelerators reduced implementation timelines significantly.

Compliance

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Implemented advanced data masking, encryption, and access policies, ensuring data governance for healthcare regulatory needs.



Solution

KPI Partners delivered a cross-functional modernization program using the **KPI DataBridge Suite**, integrating:

- **Data Platform Migration Accelerator** for scalable ingestion, transformation, and governance across ERP and enterprise data.
- **Analytics & Insight Accelerator** to deliver clinical dashboards, patient tracking KPIs, and study visibility tools.

Custom ingestion frameworks, metadata-driven pipelines, and infrastructure-as-code deployments ensured scalability and future-readiness. Spotfire dashboards were migrated to Power BI for consistency and self-service enablement.

Technology

- **Cloud & Infrastructure:** Azure Data Factory (ADF), Azure Data Lake Storage (ADLS), Azure DevOps, Terraform, Bicep
- **Data Engineering:** Databricks, Airflow DAGs
- **Analytics & Visualization:** Power BI, Spotfire
- **Governance & MDM:** Collibra, Reltio
- **Other Tools:** Openpyxl, Pandas, Python

Next Steps

The roadmap includes expanding the Data Mesh framework to additional business units, integrating advanced AI/ML models for clinical predictions, and continuing to scale Power BI adoption for embedded analytics across global operations.

“KPI Partners helped us turn a fragmented data environment into a unified analytics powerhouse.”

— Senior Director, Data & Analytics

Key Outcomes

- Broke down long-standing data silos.
- Stakeholders across finance, HR, and clinical operations gained a shared analytics foundation with trustworthy, real-time insights.
- The use of reusable, metadata-driven pipelines and open data formats ensured a future-proof architecture that scales with evolving business needs.

Why KPI?

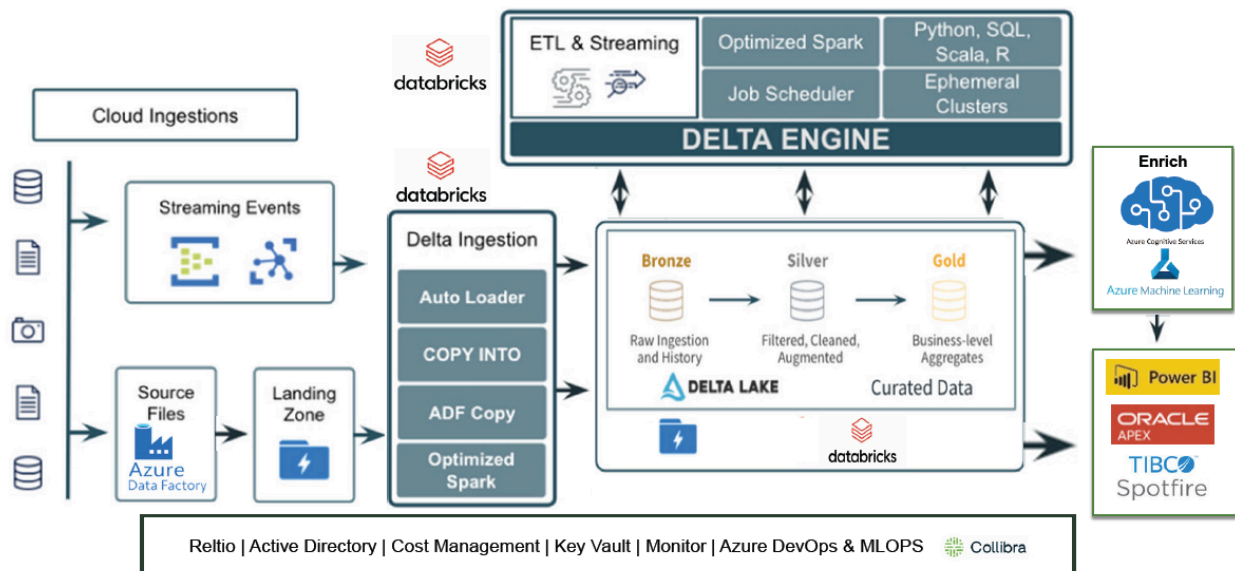
The client selected KPI Partners based on their proven track record in enterprise-scale data platform modernization and deep domain expertise in both life sciences and cloud-native analytics. **KPI's DataBridge Suite** offered a structured, accelerator-driven methodology that ensured predictable outcomes, faster timelines, and seamless collaboration across business, data, and IT teams. Their ability to blend advanced engineering capabilities with regulatory awareness made them the ideal partner for a transformation initiative that required both precision and speed.

KPI's commitment to knowledge transfer, reusable components, and transparent delivery gave the client confidence in long-term self-sufficiency—positioning the internal team for sustained innovation and adoption.

“KPI’s approach combined deep technical expertise with industry insight to accelerate outcomes that impact every part of our business—from patient trials to financial forecasting.”

— Senior Director, Data & Analytics

Solution Architecture



About KPI Partners

KPI Partners is a global strategic partner for Analytics and Digital Transformation solutions, delivering advanced capabilities in Data Science, GenAI, AI/ML, Cloud Databases, Data Engineering, Analytics & Visualization, and DevOps/DevSecOps/MLOps.

Founded in 2006 and headquartered in Newark, California, KPI Partners supports a wide range of clients, including several Fortune 500 companies across industries such as high-tech, retail, CPG, financial services, insurance, manufacturing, and life sciences. Recognized by Gartner, the company has completed over 1000 successful projects for more than 300 clients.

With a global team of 600+ consultants located across North America, Latin America, and India, KPI Partners offers deep industry expertise and broad delivery capabilities. Offices are located in Silicon Valley (HQ), Boston, New York, Atlanta, Los Angeles, Guadalajara (Mexico), Bangalore, Hyderabad, and Pune.

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