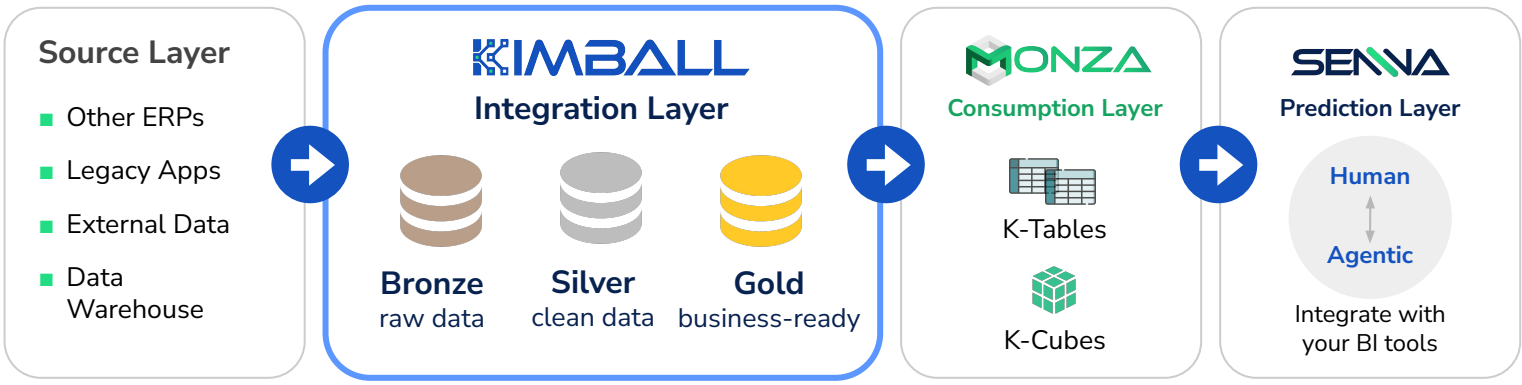
KIMBALL Powered by KAINAM Augmented Performance Management

Kimball is our AI-native data engineering solution
designed to simplify and accelerate data integration and modeling tasks for business users and analysts without requiring professional data engineering expertise. It leverages AI and automation to streamline the process of acquiring, discovering, modeling, and deploying data into usable formats for analysis and predictive forecasting.

Kimball leverages the Medallion Architecture which ensures clarity and consistency throughout the data lifecycle.



4 Step Process.

An intuitive workflow empowers users to move from raw data to insights seamlessly.

Acquire.
Connect to various data sources like SQL/NoSQL, cloud storage, APIs, and other apps.

Discover.
AI profiles and classifies data, detects measures and hierarchies, and applies automated transformations.

Model.
Auto-generates time dimensions, relationships, and hierarchies with visual adjustment options.

Transform.
Executes data pipelines to provide supporting workflows in Monza and forecasting processes in Senna.

Key Features of Kimball

Kimball stands out with a robust set of features designed for enterprise-scale analytics.

- **Secure Integration**: Encrypted connections and governance for databases, APIs, and cloud services.
- **Accelerated Pipelines**: AI/ML-powered automation for rapid data ingestion and transformation.
- **Intelligent Discovery:** Automatic detection of hierarchies, relationships, and data types, with full lineage and transparency.
- **Enterprise Scale**: Effortlessly handles billions of records from varied sources.
- **Curated Data Layers**: Converts raw data into business-ready datasets for seamless integration.
- **Efficient and Cost Effective**: Reduces reliance on specialized expertise, lowers maintenance costs, and speeds up insights.

Feature Comparison Criteria	Traditional Integration Tools	KIMBALL
Development and Data Ingestion	Cumbersome issues with heterogeneous data formats, large data volumes, data quality issues, and resource limitations. Significant manual steps.	**Automated AI-Native ingestion connects seamlessly to databases, cloud storage, and APIs. Standardizes data contracts and eliminates repetitive manual work.**
Data Volume	Lack scale and throughput power.	**Scales to billions of rows with AI/ML-optimized processing. Handles complex, multi-source integrations in a fraction of the time.**
REST API/SOAP AdapterS	Persistent issues with connectivity or inability to connect.	**Native support for REST APIs and cloud services with pre-built connectors. Flexible, extensible architecture ensures connectivity.**
Support	Built on older technologies, often incompatible with modern applications and platforms. Support is difficult to find.	**Modern, AI-Native, cloud-ready design ensures compatibility with current ecosystems. Backed by continuous updates and enterprise-grade support.**
Scalability	Limited scalability; struggles with big data and real-time analytics.	**Designed for scalability; supports rapid growth and large-scale analytics.**
Data Modeling	Often uses normalized, rigid schemas; can be complex for business users.	**Employs dimensional modeling, making data intuitive and accessible for business analysis.**
Implementation Speed	Slow, due to manual processes and complex integration steps.	**Faster deployment with iterative, business-focused development cycles.**
User Accessibility	Technical expertise required for querying and reporting; less business-friendly.	**Business-oriented; enables self-service analytics and easy data exploration.**
Flexibility	Difficult to adapt to changing business needs; changes can be costly and time-consuming.	**Highly flexible; iterative development allows for quick adaptation to new requirements.**
Data Governance & Consistency	Data silos and inconsistent standards are common, leading to governance challenges.	**Promotes conformed dimensions and unified data definitions, supporting strong governance and consistency.**
Security & Compliance	Security features may be outdated or require manual configuration; compliance can be challenging.	**Built-in security, encryption, and compliance to meet regulatory requirements.**
Cloud Readiness	On-premise designs only partially adapted to the cloud, requiring extra tools and complex setup. Limited scalability, minimal hybrid/multi-cloud support, and outdated security and compliance.	**Cloud-native or cloud-ready with seamless public, private, and hybrid integration. Offers auto-scaling, consumption pricing, strong security, and fast adoption of cloud services, streaming, and multi-cloud analytics.**
Cost of Ownership (TCO)	High TCO from costly licenses, maintenance, specialized labor, fragmented support, and growing infrastructure needs. Scaling and upgrades add expenses, and unpredictable operational costs strain budgets.	**Minimal manual intervention, with streamlined support, predictable costs, rapid scaling, and shared platform improvements reducing long-term impact. Enables reliable budgeting and aligns technical and financial priorities.**
Advanced Features	Limited automation, AI/ML integration, and real-time processing capabilities.	**Supports AI/ML-driven automation, real-time data streaming, and advanced analytics.**