# Powering Your Future:

## The Ultimate ChainSys Solutions Catalog

**ChainSys**

**Smart Data Platform™**

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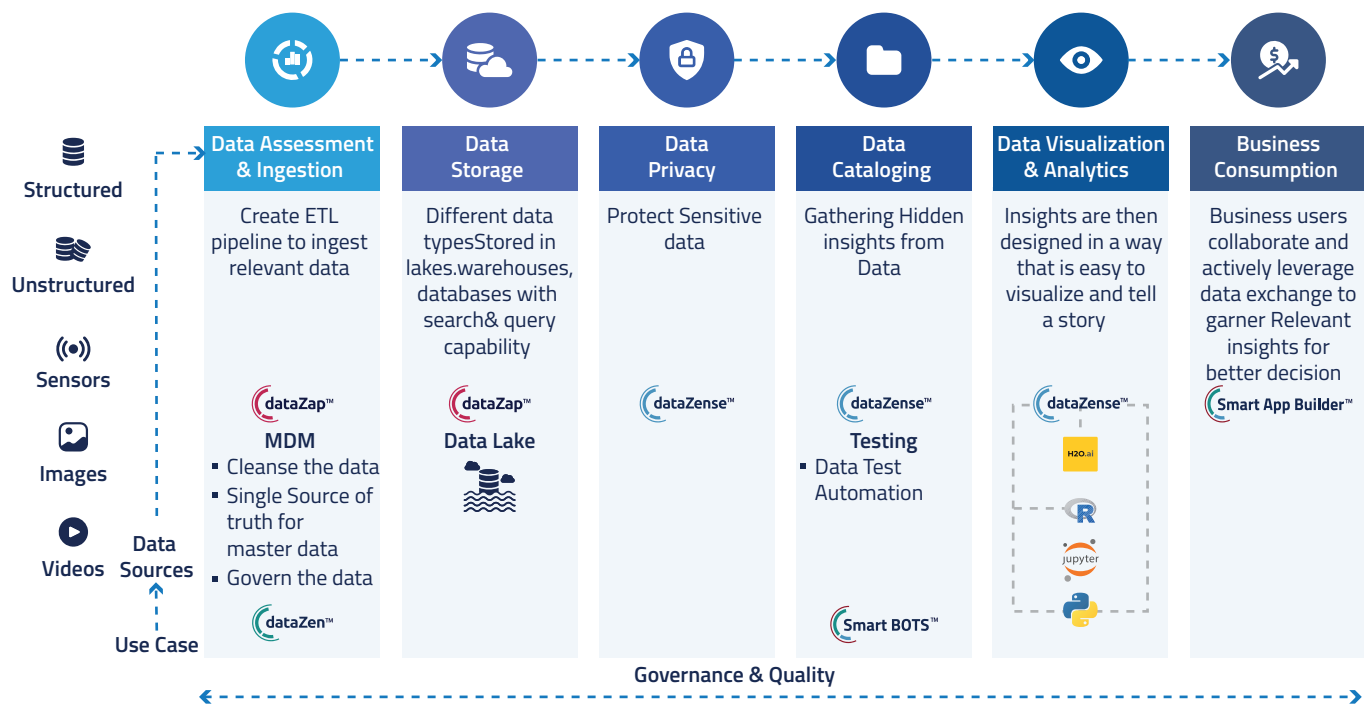
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# 1. Executive Summary

The ChainSys Smart Data Platform is the undisputed leader in enterprise data management, delivering unmatched automation, intelligence, and security across the entire data lifecycle—Data Assessment, Migration, Archival, Integration, Quality, Governance, Master Data Management, Cataloging, Analytics, and Security. With 2000+ pre-built templates, AI-driven automation, and seamless integration with Oracle, SAP, Salesforce, and Microsoft, ChainSys guarantees zero-downtime migrations, real-time data synchronization, and bulletproof governance. Global enterprises trust ChainSys to drive data excellence, regulatory compliance, and business transformation at scale. Don't just manage data—master it with ChainSys, the industry leader!

## Why ChainSys?

| | |
|---|---|
| **Scalable & Flexible Solutions** | ChainSys has helped over 500 global enterprises streamline their data management with 99% uptime and minimal system disruptions. |
| **Comprehensive Data Integration** | Seamlessly integrates diverse systems (e.g., SAP, Oracle, Salesforce) with real-time data synchronization, ensuring accuracy and consistency across all platforms |
| **Advanced Data Quality & Governance** | Users report a 40% improvement in data quality and a 30% reduction in data errors post-implementation. |
| **Automation & AI-Powered Insights** | Leverage automation for repetitive tasks and AI for data-driven insights, improving decision-making and operational efficiency. |
| **Proven Track Record of Success** | 98% customer satisfaction rate and a 30% faster time-to-value on average for data management projects. |

# ChainSys Comprehensive Approach to Enterprise Data Management Using Smart Data Platform

| Data Assessment & Ingestion | Data Storage | Data Privacy | Data Cataloging | Data Visualization & Analytics | Business Consumption |
|---|---|---|---|---|---|
| Create ETL pipeline to ingest relevant data | Different data typesStored in lakes.warehouses, databases with search& query capability | Protect Sensitive data | Gathering Hidden insights from Data | Insights are then designed in a way that is easy to visualize and tell a story | Business users collaborate and actively leverage data exchange to garner Relevant insights for better decision |

**Data Sources:** Structured, Unstructured, Sensors, Images, Videos

**Use Case**

**dataZap™** — MDM
- Cleanse the data
- Single Source of truth for master data
- Govern the data

**dataZen™**

**dataZap™** — Data Lake

**dataZense™**

**dataZense™** — Testing
- Data Test Automation

**Smart BOTS™**

**dataZense™** — H2O.ai, R, Jupyter, Python

**Smart App Builder™**
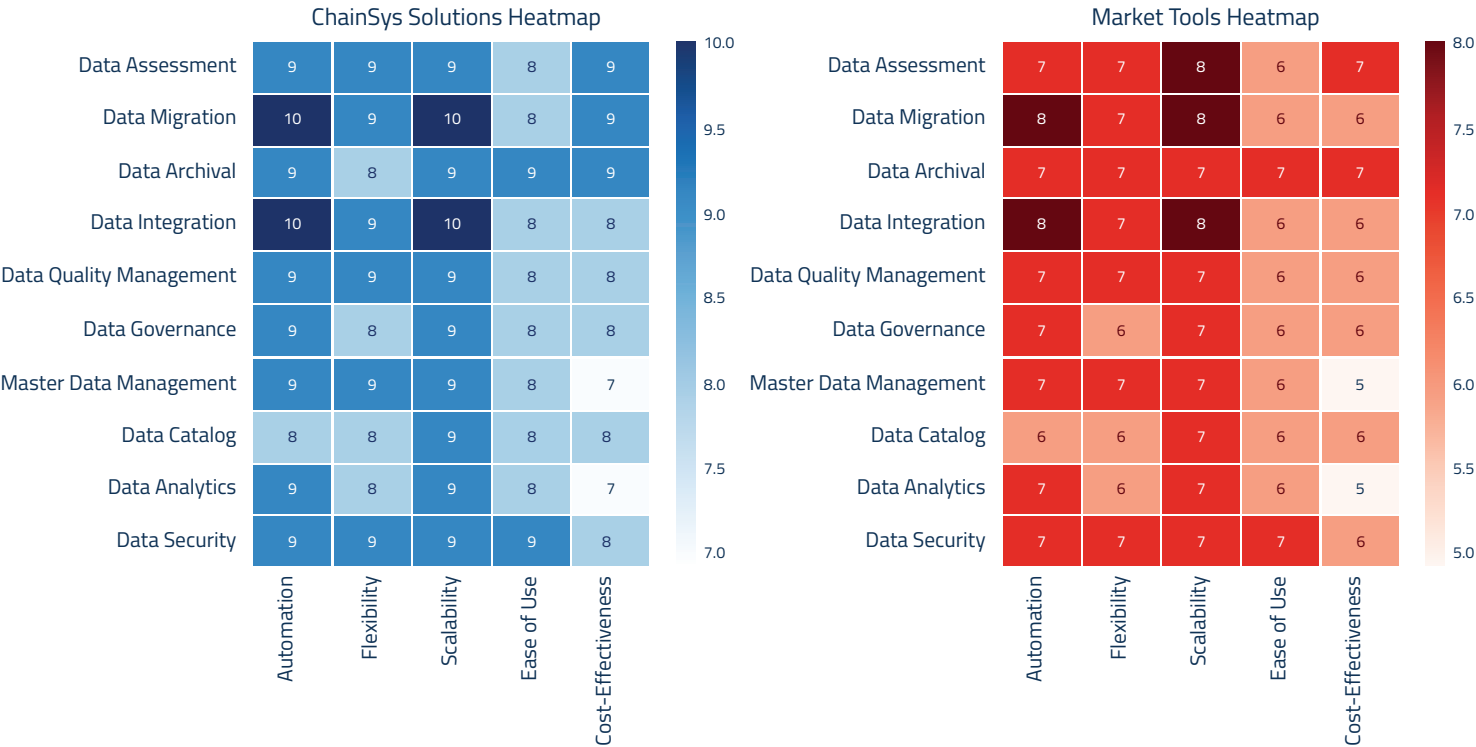
**Governance & Quality**

ChainSys Smart Data Platform is a comprehensive, AI-powered solution designed to streamline Enterprise Data Management across ERP, CRM, cloud, and on-premise ecosystems. With end-to-end capabilities for Data Assessment, Migration, Integration, Quality, Governance, Archival, Cataloging, Visualization, and Analytics, the platform eliminates data silos, improves accuracy, and enhances regulatory compliance. With 2,000+ pre-built connectors and no-code automation, accelerate implementation by up to 50%, ensuring seamless connectivity with Oracle, SAP, Salesforce, and other enterprise applications.

## The Core of Smart Data Platform

| dataZap™ | dataZen™ | dataZense™ | Smart App Builder™ | Smart BOTS™ |
|---|---|---|---|---|
| Data & Setup Migration Integration & Reconciliation Archiving | Master Data Management, Data Governance & Data Quality | Analytics, Security, Cataloging, Data Science & Data Masking | iPaas, RAD framework, Workflows, Web, Mobile & BPM Apps | Automate QA / Regression testing, Data Loading and RPA |
| Learn More ▶ | Learn More ▶ | Learn More ▶ | Learn More ▶ | Learn More ▶ |

# ChainSys Solution Metrics Vs Current Market Tools

## ChainSys Solutions Heatmap

| | Automation | Flexibility | Scalability | Ease of Use | Cost-Effectiveness |
|---|---|---|---|---|---|
| Data Assessment | 9 | 9 | 9 | 8 | 9 |
| Data Migration | 10 | 9 | 10 | 8 | 9 |
| Data Archival | 9 | 8 | 9 | 9 | 9 |
| Data Integration | 10 | 9 | 10 | 8 | 8 |
| Data Quality Management | 9 | 9 | 9 | 8 | 8 |
| Data Governance | 9 | 8 | 9 | 8 | 8 |
| Master Data Management | 9 | 9 | 9 | 8 | 7 |
| Data Catalog | 8 | 8 | 9 | 8 | 8 |
| Data Analytics | 9 | 8 | 9 | 8 | 7 |
| Data Security | 9 | 9 | 9 | 9 | 8 |

## Market Tools Heatmap

| | Automation | Flexibility | Scalability | Ease of Use | Cost-Effectiveness |
|---|---|---|---|---|---|
| Data Assessment | 7 | 7 | 8 | 6 | 7 |
| Data Migration | 8 | 7 | 8 | 6 | 6 |
| Data Archival | 7 | 7 | 7 | 7 | 7 |
| Data Integration | 8 | 7 | 8 | 6 | 6 |
| Data Quality Management | 7 | 7 | 7 | 6 | 6 |
| Data Governance | 7 | 6 | 7 | 6 | 6 |
| Master Data Management | 7 | 7 | 7 | 6 | 5 |
| Data Catalog | 6 | 6 | 7 | 6 | 6 |
| Data Analytics | 7 | 6 | 7 | 6 | 5 |
| Data Security | 7 | 7 | 7 | 7 | 6 |

# How Does the Smart Data Platform Addresses Data Management Challenges?

| Data Management Challenges | Smart Data Platform Solution |
|---|---|
| Complex Data Environments | Managing data across various systems, applications, and databases can be daunting. The Smart Data Platform's integration capabilities streamline data flow across diverse environments, reducing complexity and ensuring that all data sources are harmonized. |
| Data Quality Issues | Poor data quality can lead to inaccurate reporting and decision-making. The Smart Data Platform's data quality management tools proactively address data issues, ensuring that only clean, validated data is used in critical business processes. |
| Compliance and Regulatory Requirements | Organizations face stringent data governance requirements. The platform's advanced governance features ensure compliance with industry regulations, offering features such as data masking, role-based access control, and automated audit trails. |
| Data Silos | Data silos can hinder enterprise-wide data initiatives. The Smart Data Platform breaks down these silos by providing a unified data management approach, enabling seamless data sharing and collaboration across departments. |

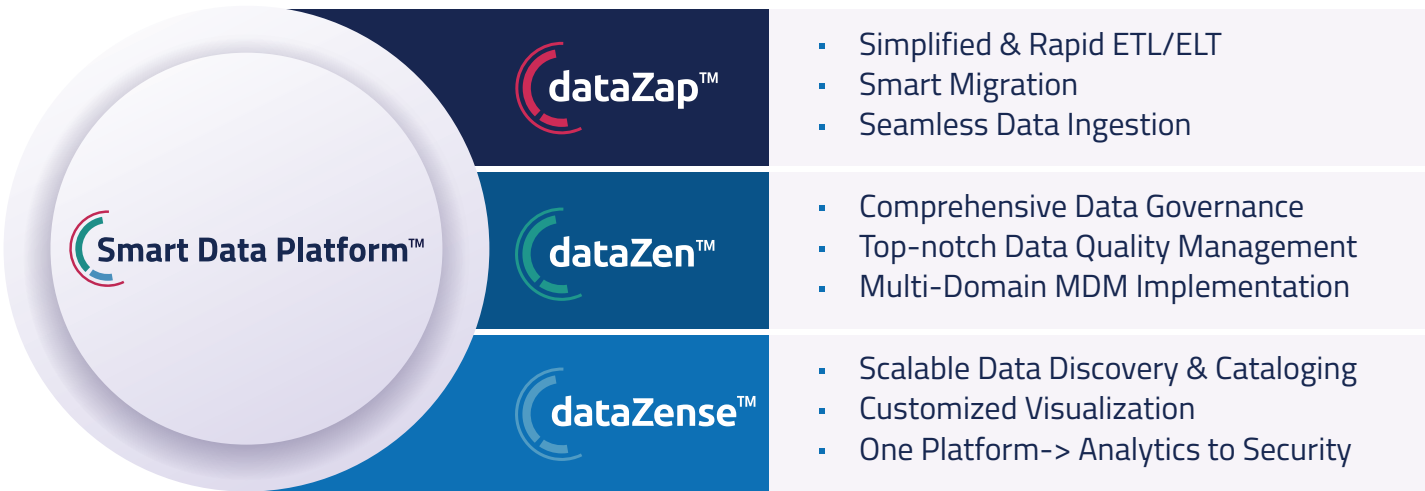# Introduction to ChainSys Smart Data Platform

## 1.1 What is Smart Data Platform?

The ChainSys Smart Data Platform is an advanced, all-in-one solution designed to manage, integrate, govern, and analyze enterprise data across diverse systems, including Oracle, SAP, and other major ERP platforms. With a suite of intelligent tools and pre-configured templates, the platform empowers organizations to harness the full potential of their data while ensuring compliance, accuracy, and security. Whether it's data quality management, data integration, or advanced analytics, the Smart Data Platform provides a comprehensive and scalable framework to support your enterprise data initiatives.

## 1.2 How does the ChainSys Smart Data Platform improve data management?

**Unified Data Management:**

The platform consolidates data management processes into a single, unified solution. This includes data integration, data quality, master data management (MDM), data governance, and analytics, providing a holistic view and control over your enterprise data.
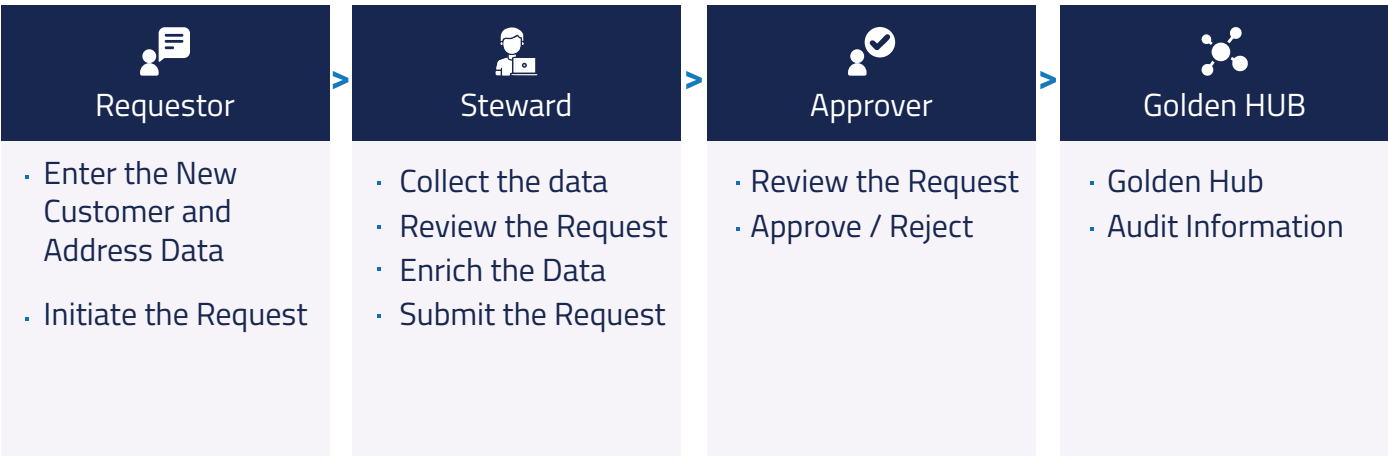
| Smart Data Platform™ | dataZap™ | • Simplified & Rapid ETL/ELT<br>• Smart Migration<br>• Seamless Data Ingestion |
|---|---|---|
| | dataZen™ | • Comprehensive Data Governance<br>• Top-notch Data Quality Management<br>• Multi-Domain MDM Implementation |
| | dataZense™ | • Scalable Data Discovery & Cataloging<br>• Customized Visualization<br>• One Platform-> Analytics to Security |

**Smart Data Platform™**

**Pre-Built Templates and Adapters:**

With over 10000+ smart data adapters, the Smart Data Platform simplifies complex data management tasks. These templates cover setups, master data, transactions, and analytics, accelerating project timelines and reducing the need for custom development.
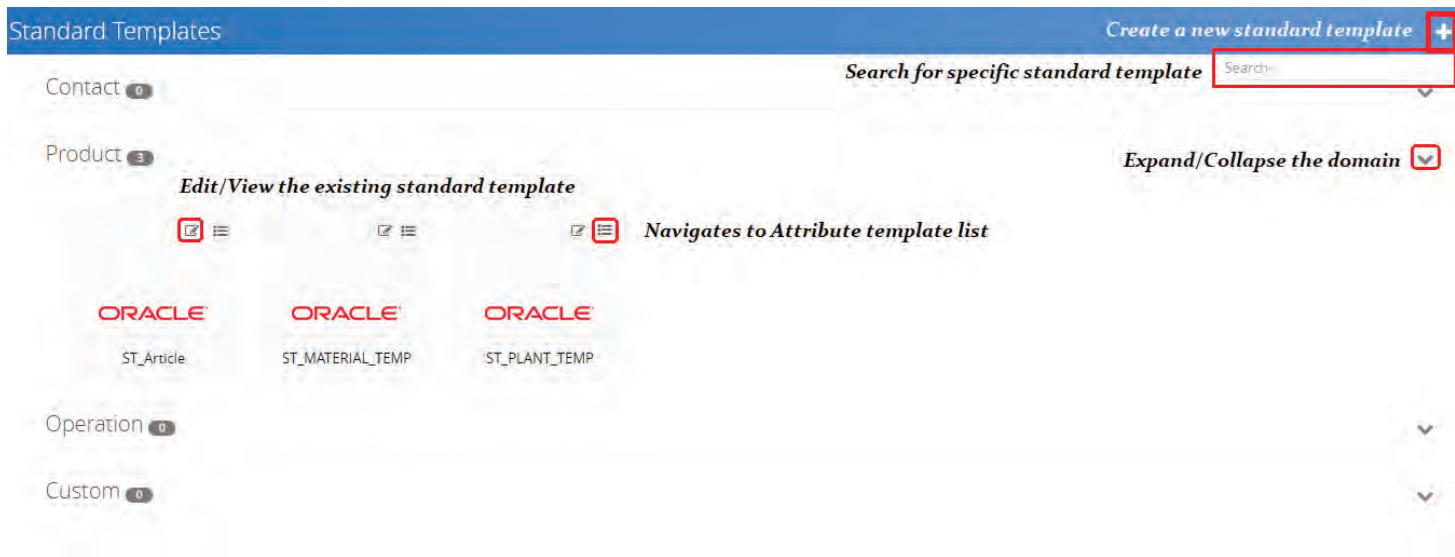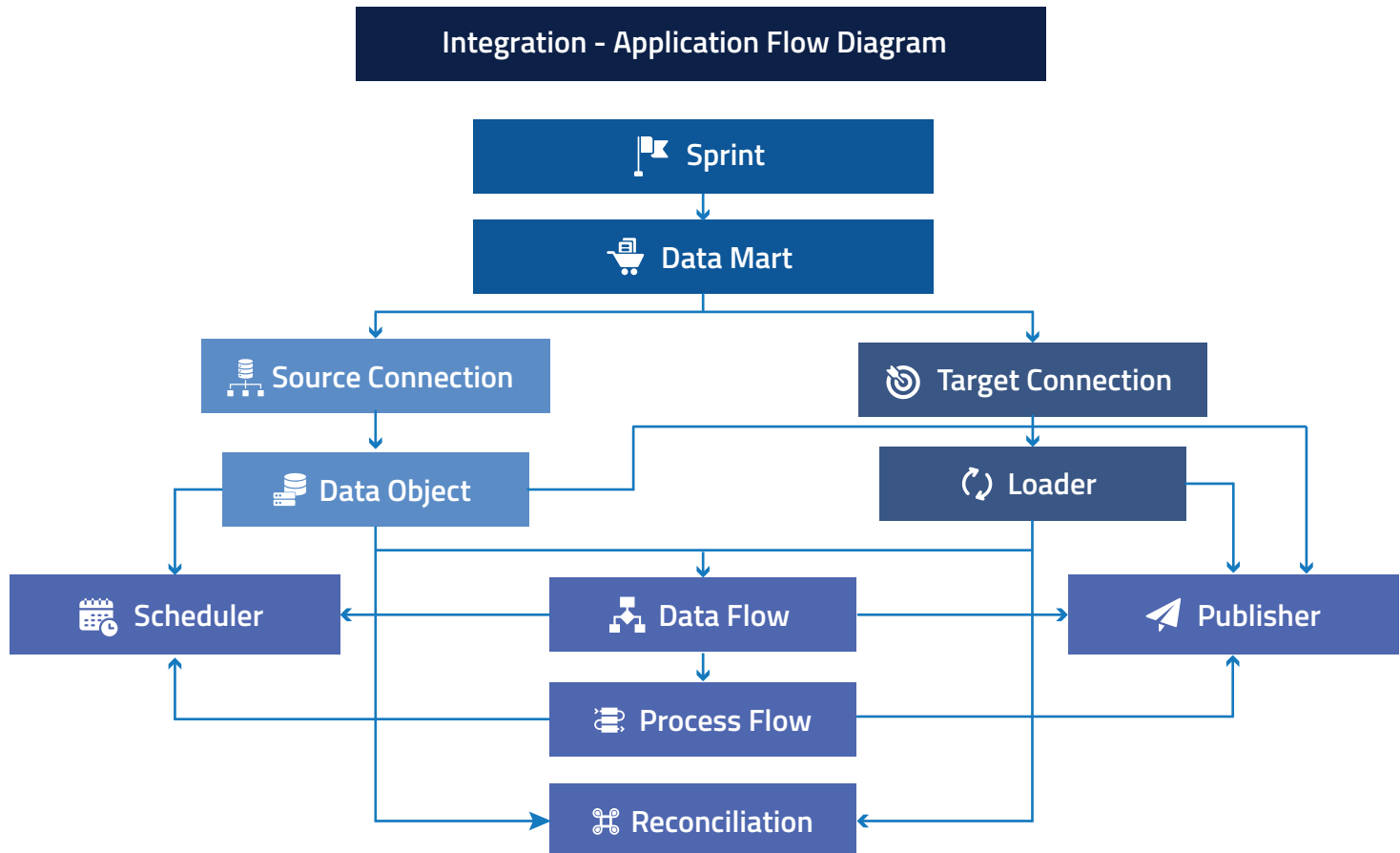


**Advanced-Data Governance:**

The platform includes powerful data governance tools that ensure compliance with industry standards and regulations. Automated workflows, audit trails, and data lineage tracking help maintain data integrity and transparency across all systems.

| Requestor | > | Steward | > | Approver | > | Golden HUB |
|---|---|---|---|---|---|---|
| · Enter the New Customer and Address Data<br><br>· Initiate the Request | | · Collect the data<br>· Review the Request<br>· Enrich the Data<br>· Submit the Request | | · Review the Request<br>· Approve / Reject | | · Golden Hub<br>· Audit Information |

## Scalable Data Integration:

Designed to handle the integration needs of both small businesses and large enterprises, the platform's scalable architecture can manage data from a few thousand records to billions of records. It ensures seamless data flow across multiple applications and platforms, regardless of their complexity.

### Integration - Application Flow Diagram

Sprint → Data Mart → Source Connection, Target Connection

Source Connection → Data Object → Scheduler, Data Flow

Target Connection → Loader → Publisher

Data Flow → Process Flow → Reconciliation

Process Flow → Publisher, Reconciliation

## Comprehensive Data Quality Management:

The Smart Data Platform includes robust data profiling, cleansing, and enrichment tools, ensuring that high-quality data is maintained throughout the organization. By addressing data quality at the source, the platform minimizes errors and inconsistencies, leading to more reliable business insights.

### Data Quality Management

**Match and Merge Review**

Match & Merge results can be reviewed. Also Field Merge, and Manual Matches can be performed

**Data Cleansing Review**

Data Enrichment and Transformationcan be reviewed and approved

**Data Validation Review**

Business rules to assess the data quality. This is normally performed before and after cleansing

**Data Unifier Review**

Data Quality buckets can be combined together for review

**Data Profile Review**

Profiler scans the upstream data and suggests the data quality statistics

**Real-Time Analytics and Reporting:**

The platform offers real-time analytics and reporting capabilities, providing instant access to actionable insights. Customizable dashboards and reports enable organizations to monitor key performance indicators (KPIs) and make informed decisions based on accurate, up-to-date data.



Data Modeler → Calculated Table

Data from Database → Connection → Data Lake

View → Dashboard

Dataset
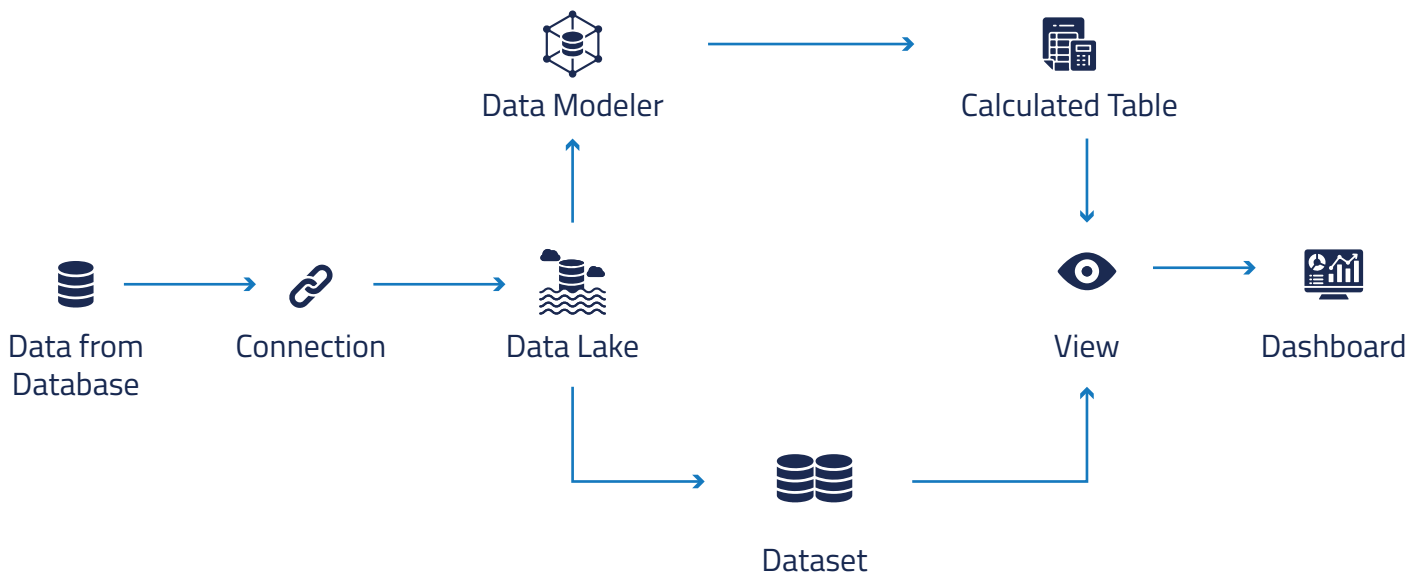
## 1.3 Effortless Connection with Smart Data Platform

### Data Excellence in Milliseconds



- AI-Driven Simp & Rapid STL/ELT
- Smart AI-Powerad Migration
- Seamless AI-Based Data Ingestion

- Comprehensive Data Governance
- All-driven Data Quality Management
- Multi-Domain MOM Inglemandation

- Comprehensive Data Governance
- All-driven Data Quality Management
- Multi-Domain MOM Inglemandation

**Smart Data Platform™**
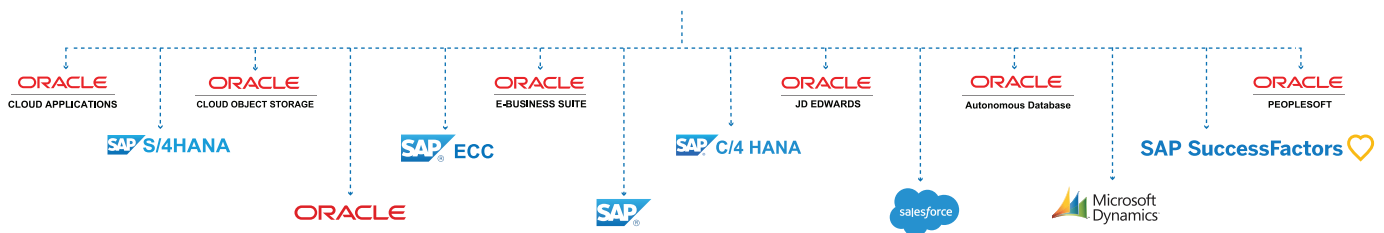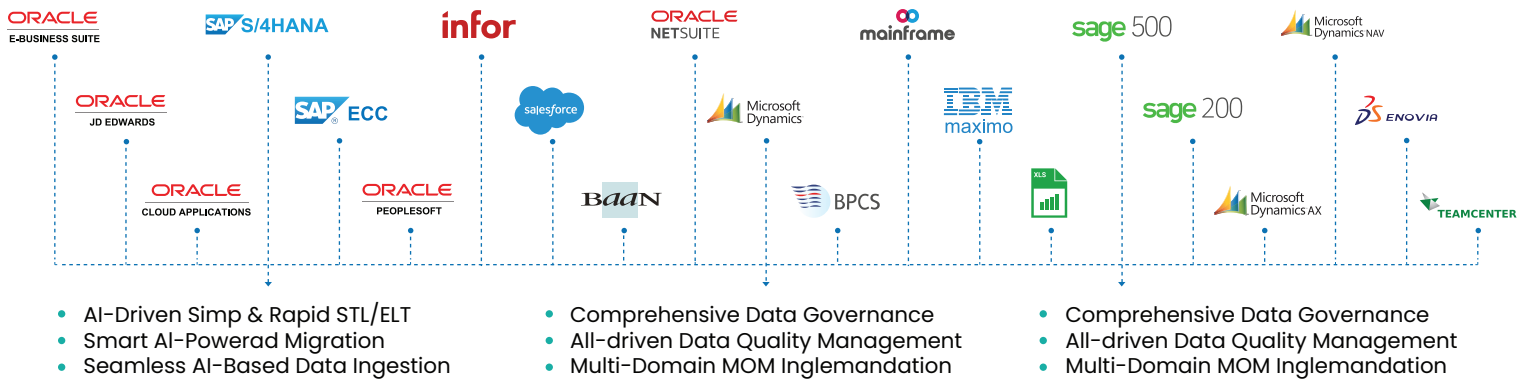
# 1.4 Why is ChainSys Smart Data Platform the Market Leader?

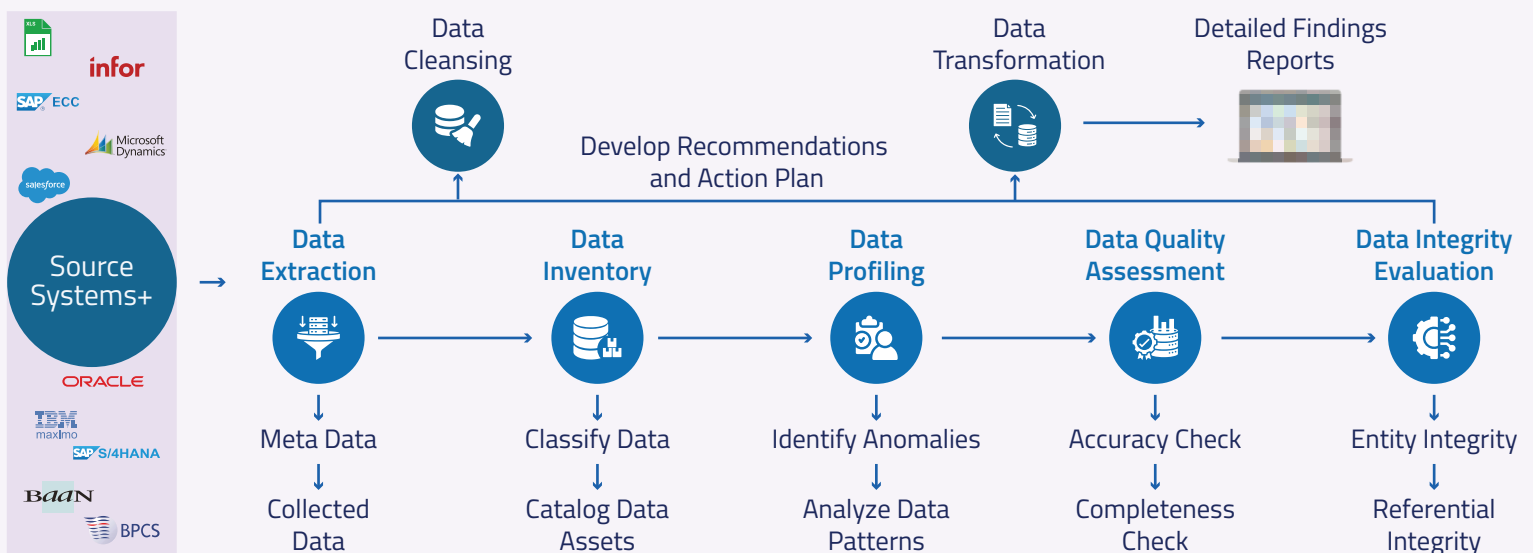| | | | | ChainSys | Other Tools |
|---|---|---|---|---|---|
| Data Assessment | 01 | Data Health Check for various DQ Dimensions providing Valuable insights into Data Quality | | ✓ | ✗ |
| | | Out of Box configurable DQ Dashboards for various data domains | | ✓ | ✗ |
| Data Preparation | 02 | Enhance data quality through Automated Cleansing and enrichment using 3rd Party service providers | | ✓ | — |
| | | Optimize collaboration and resource utilization from Business by leveraging User Friendly Dashboards | | ✓ | ✗ |
| Data Migration | 03 | Significant time reduction for application Setup with low-code platform | | ✓ | — |
| | | Ready to use Adapters for major ERPs like Oracle Fusion, SAP etc. for extraction and Loading including Setup Migrations | | ✓ | — |
| | | Comprehensive Data Reconciliation & Functional Reconciliation | | ✓ | — |
| Master Data Governance | 04 | Ongoing Data Governance capabilities as Multi-Domain MDM | | ✓ | — |
| | | Integration Capabilities to extract and ingest the data into multiple systems as part of Hub & Spoke architecture | | ✓ | — |
| | | Comprehensive Approval Workflow & Audit Capabilities to implement data governance policies | | ✓ | — |
| Data Archival | 05 | Data assessment to accurately assess where data volumes are unnecessarily high for effective Archival & Purging Solution | | ✓ | ✗ |
| | | Pre-configured templates for archiving the data from major ERPs like Oracle, SAP etc. | | ✓ | ✗ |
| Data Security & Protection | 06 | Comprehensive platform for all SOX, GDPR, CCPA, PII & other GRC requirements | | ✓ | — |
| | | Ability to mask or scramble PII and other sensitive data for enhanced Data security during Data Movement | | ✓ | ✗ |
| Enterprise Data Mgmt | 07 | Centralizing data across legacy and cloud systems, unifying discrete data models & object sets | | ✓ | ✗ |
| | | Data cataloging to make data searchable and maintain data lineage, entity relationships, business glossary and data virtualization | | ✓ | ✗ |
| | | Ingest the Structured as well Non-Structured Data leveraging OCR Capabilities from various sources | | ✓ | ✗ |
| Data Visualization | 08 | Pre-configured dashboards for Spend Analytics, Supplier 360, Customer 360, Product 360, Product Profitability, HR Headcount and C-Suite Analytics | | ✓ | ✗ |
| | | Data Profiling on structured and unstructured data along with Data Reporting using visualization | | ✓ | ✗ |
| Custom Application Build | 09 | No-Code to Low Code Application Development (iPaaS Solution) with Rapid Application Development (RAD) Framework | | ✓ | ✗ |
| | | Prebuilt Integration Data Templates for Major Applications (ERPs) | | ✓ | ✗ |
| Data Security & Protection | 10 | Bulk Data Loading Capabilities with Scaling up to 100 Million records | | ✓ | — |
| | | Pre-validate data in Bulk before load to ensure high data quality | | ✓ | — |
| | | Automated regression testing, load testing, and performance testing | | ✓ | ✗ |
| Performance & Scalability | 11 | Distributed Computing Model to support parallel high volume data handling & movement | | ✓ | ✗ |
| | | Vertical and horizontal scalability of the application based on infrastructure | | ✓ | ✗ |

# 2. ChainSys Comprehensive Approach to Enterprise Data Management Using Smart Data Platform

| Data Assessment & Ingestion | Data Storage | Data Privacy | Data Cataloging | Data Visualization & Analytics | Business Consumption |
|---|---|---|---|---|---|
| Create ETL pipeline to ingest relevant data | Different data typesStored in lakes.warehouses, databases with search& query capability | Protect Sensitive data | Gathering Hidden insights from Data | Insights are then designed in a way that is easy to visualize and tell a story | Business users collaborate and actively leverage data exchange to garner Relevant insights for better decision |
| dataZap™ | dataZap™ | dataZense™ | dataZense™ | dataZense™ | Smart App Builder™ |
| **MDM** | **Data Lake** | | **Testing** | H2O.ai | |
| ▪ Cleanse the data | | | ▪ Data Test Automation | R | |
| ▪ Single Source of truth for master data | | | | jupyter | |
| ▪ Govern the data | | | | python | |
| dataZen™ | | | Smart BOTS™ | | |

Data Sources: Structured, Unstructured, Sensors, Images, Videos

Use Case

**Governance & Quality**

ChainSys Smart Data Platform is a comprehensive, AI-powered solution designed to streamline Enterprise Data Management across ERP, CRM, cloud, and on-premise ecosystems. With end-to-end capabilities for Data Assessment, Migration, Integration, Quality, Governance, Archival, Cataloging, Visualization, and Analytics, the platform eliminates data silos, improves accuracy, and enhances regulatory compliance. With 2,000+ pre-built connectors and no-code automation, accelerate implementation by up to 50%, ensuring seamless connectivity with Oracle, SAP, Salesforce, and other enterprise applications.

## Below are the key solutions covered under ChainSys Enterprise Data Management Solution:

## 2.1 Data Assessment

Source Systems+

| Data Extraction | Data Inventory | Data Profiling | Data Quality Assessment | Data Integrity Evaluation |
|---|---|---|---|---|
| Meta Data | Classify Data | Identify Anomalies | Accuracy Check | Entity Integrity |
| Collected Data | Catalog Data Assets | Analyze Data Patterns | Completeness Check | Referential Integrity |

Data Cleansing → Develop Recommendations and Action Plan → Data Transformation → Detailed Findings Reports

ChainSys offers comprehensive data assessment solutions to evaluate the quality, structure, and readiness of data for business needs. Our solution ensures high-quality data by identifying inconsistencies, redundancies, and gaps, aligning data with business goals.

## Why Data Assessment is Critical?

- Prevents Costly Errors
- Reduces Migration Failures
- Optimizes Storage
- Ensures Compliance
- Enhances Decision-Making

## Challenges Organizations Face Due to Lack of Data Assessment

- **Inaccurate Decision-Making**
  Poor data quality leads to flawed strategies and business decisions.

- **Higher Migration Risks**
  Data issues often cause migrations to exceed budgets or fail entirely.

- **Increased Storage Costs**
  Redundant and obsolete data drives up storage expenses.

- **Compliance Risks**
  Failing to assess data properly can result in costly fines for non-compliance.

- **Weak Analytics & Integration**
  Bad data hinders the ability to derive meaningful insights from multiple sources.

# How we deliver Data Assessment

- **Data Extraction**

  Data is collected from systems like Microsoft Dynamics, SAP, Oracle, and Salesforce, consolidating metadata and raw data into a central location for further processing.
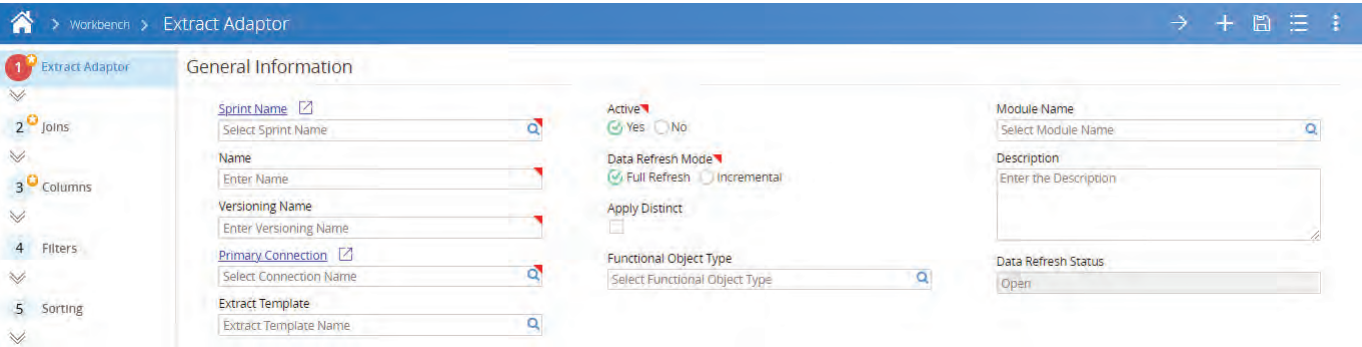


- **Data Inventory**

  Extracted data is organized into catalogs and classified by type and purpose, improving accessibility and preparing it for analysis.
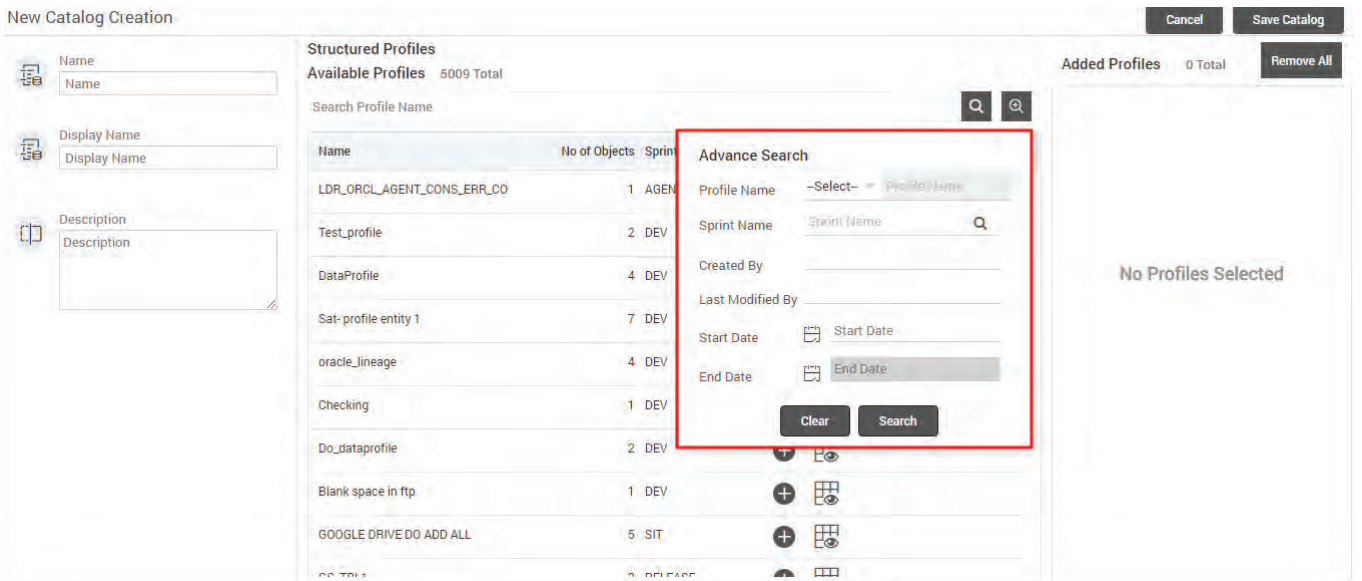
- **Data Profiling**

  Data patterns are analyzed, anomalies are identified, and structural insights are gained, ensuring readiness for quality checks.
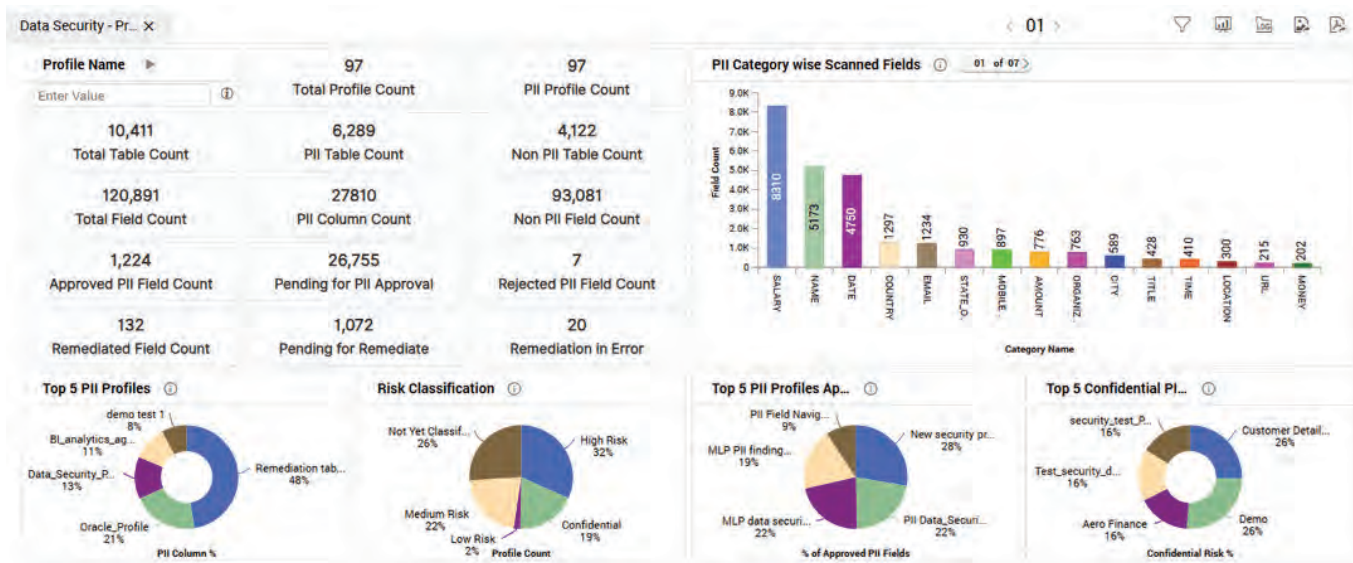


- **Data Quality Assessment**

  Completeness, accuracy, and consistency checks are performed to ensure the data is reliable and error-free.

- **Data Integrity Evaluation**

  Integrity checks validate relationships and record reliability for trustworthy data.



- **Detailed Findings Reports**

  Comprehensive reports summarize insights, issues, and actionable recommendations, offering a clear view of data quality.

# Key Benefits of ChainSys Data Assessment Solution

- **In-Depth Analysis:**
  Identifies critical issues in data quality, structure, and format across multiple systems.

- **Automation and Scalability:**
  Leverages automated tools for scalability and consistent results.

- **Pre-Built Templates:**
  Includes 1000+ templates to assess data for Oracle, SAP, Salesforce, and other applications.

- **Regulatory Compliance:**
  Ensures compliance with industry standards and regulations, reducing business risks.

# Real Life Use Cases with Scenario

| | |
|---|---|
| Scenario | A global manufacturing company across Asia, Europe, and North America aimed to implement SAP S/4 HANA. They needed to consolidate data from three ERP systems (SAP ECC, JD Edwards, MAPICS) and various non-ERP legacy applications. To ensure a smooth migration, they sought to identify duplicates, assess data quality, and validate data readiness against S/4 HANA standards. |
| Use Case | Assess data from three ERP and non-ERP systems for SAP S/4 HANA migration. |
| ChainSys Solution | • Utilized ChainSys Smart Data Platform for detailed profiling and prevalidation.<br>• Performed dependency and duplication checks, ensuring accurate master data. |
| Outcomes | • Saved time by addressing data issues early, reducing migration delays.<br>• Achieved seamless integration with SAP S/4 HANA and increased migration confidence. |

## 2.2 Data Migration

| Your Data | → | Get Clean | → | Migrate | → | Stay Clean |

### Source Systems+

IBM maximo
SAP S/4HANA
Baan
BPCS
XLS
ORACLE
infor
salesforce
Microsoft Dynamics

### Data Assessment

Data Profiling

Dependency Check

Data Extraction

Duplicate Check

Data Validation

### Metadata Management

Repository

Harvesting

Standardization

Integration

Access Control

### Data Preparation

Data Consolidation

Data Enrichment & Cleansing

Data Standardization

Data Purging

Data Archiving

### Data Migration

Migration Planning

Data Mapping

Data Conversion

Data Verification

Data Synchronization

### Data Operations

Master Data Management

Data Integration

Data Quality & Governance

Data Catalog

Metadata Management

---

dataZap focuses on Data Migration for Oracle Cloud Applications, SAP S/4HANA, SAP ECC, Oracle E-Business Suite, Microsoft Dynamics, Salesforce, and other Enterprise Systems. Our templatized approach gives you an 80% head start on your Data Migration and Integration projects. It provides ready data mappings between source and target systems.

## Why is Data Migration Critical?

- Ensures Business Continuity
- Improves Efficiency
- Supports Growth
- Enhances Data Security
- Compliance & Reporting

# Challenges Organizations Face Due to Improper Data Migration

- **Business Disruptions**

  Data migration failure can halt business operations and delay project timelines.

- **Data Inconsistencies**

  Lack of proper migration leads to incomplete, inaccurate, or misaligned data, affecting decision-making.

- **Increased Costs**

  Unsuccessful migrations can lead to extra costs from rework, downtime, or reimplementation of systems.

- **Security Vulnerabilities**

  Improper migration exposes sensitive data to breaches and regulatory penalties.

- **Regulatory Compliance Issues**

  Failing to migrate data properly can result in non-compliance with laws like GDPR or HIPAA.

# How we deliver Data Migration

- **Data Assessment:**

  Conducts initial data profiling, comprehensive dependency checks, and rigorous validation to ensure a clear understanding of the data landscape, enabling accurate planning and risk mitigation.
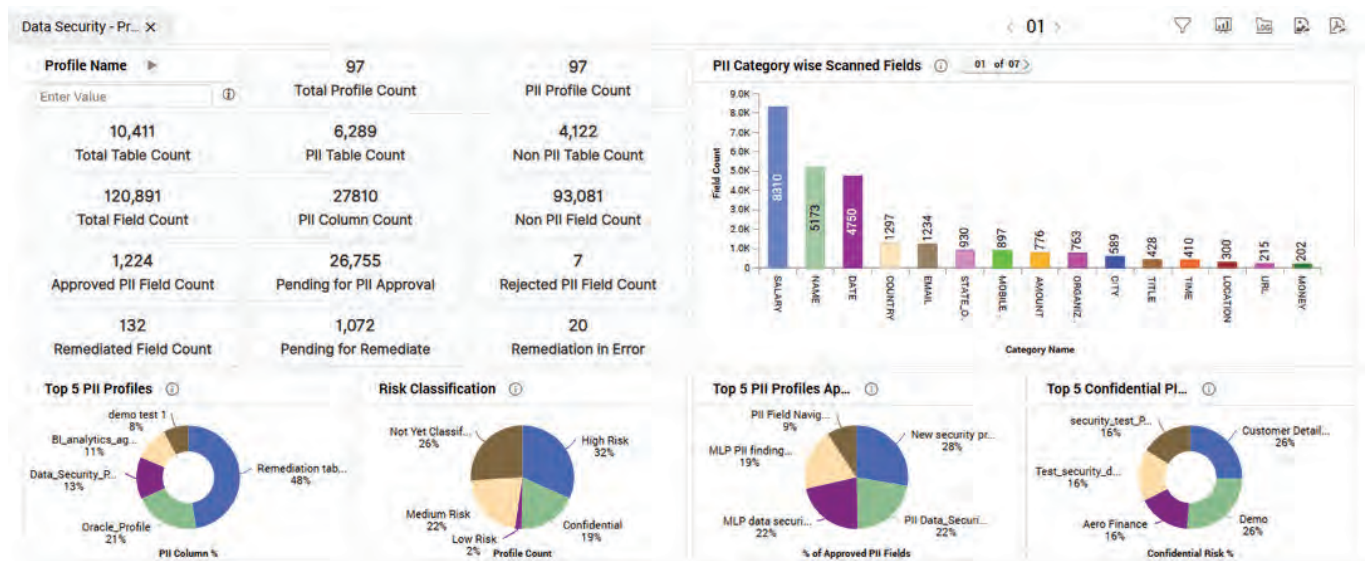
- **Metadata Management:**

  Facilitates the creation of a centralized metadata repository with robust integration capabilities and stringent access control mechanisms, ensuring secure and efficient metadata governance.



- **Data Preparation:**

  Encompasses data enrichment, thorough cleansing, systematic purging, and efficient archiving to streamline the dataset for seamless downstream processing and compliance.

- **Data Migration:**

  Enables precise mapping, reliable data conversion, meticulous verification, and real–time synchronization to ensure a successful and disruption-free migration process.
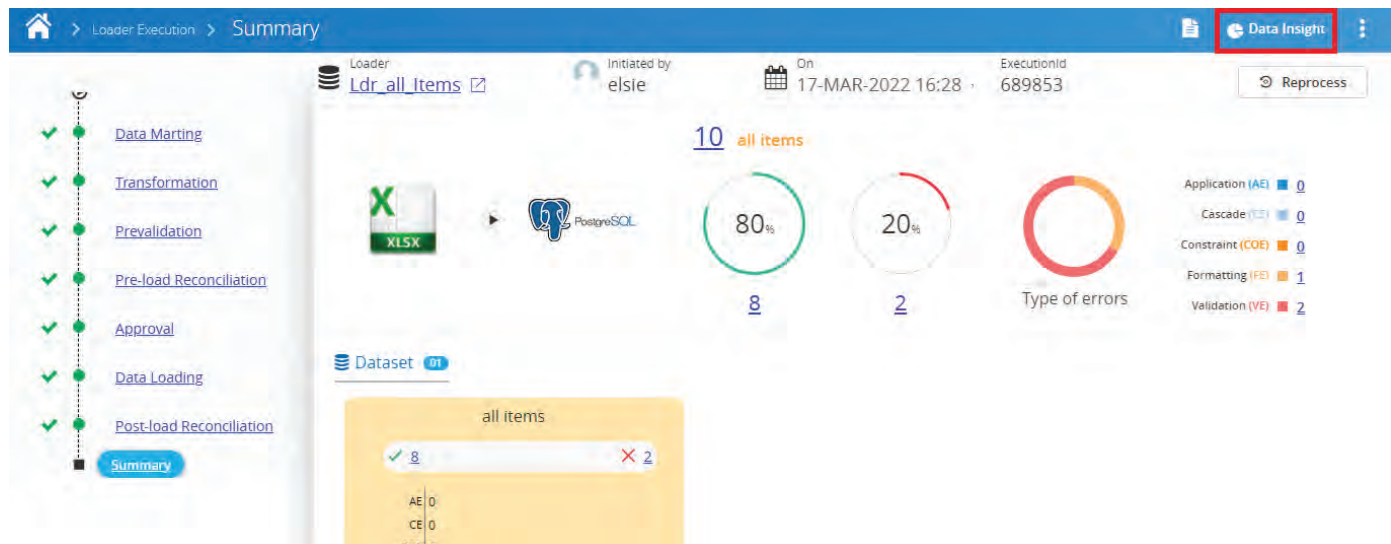


# Key Reasons to Choose ChainSys for Data Migration

- **Proven Track Record in Data Migration:**

  ChainSys has successfully completed over **1,200+** data migration projects globally, delivering reliable results across various industries and data environments.

- **Accelerated Migration Timelines:**

  With **2,000+ pre-built data migration templates**, ChainSys reduces migration timelines by **50-70%**, ensuring smooth and fast migrations with minimal disruption.

- **Unparalleled Data Accuracy:**

  ChainSys data migration ensures **99.99% accuracy**, maintaining the integrity of your data throughout the migration process and minimizing risks of data corruption or loss.

- **High Customer Satisfaction:**

  With a **96% client satisfaction rate** in data migration services, ChainSys has earned the trust of organizations worldwide for its efficiency and precision.
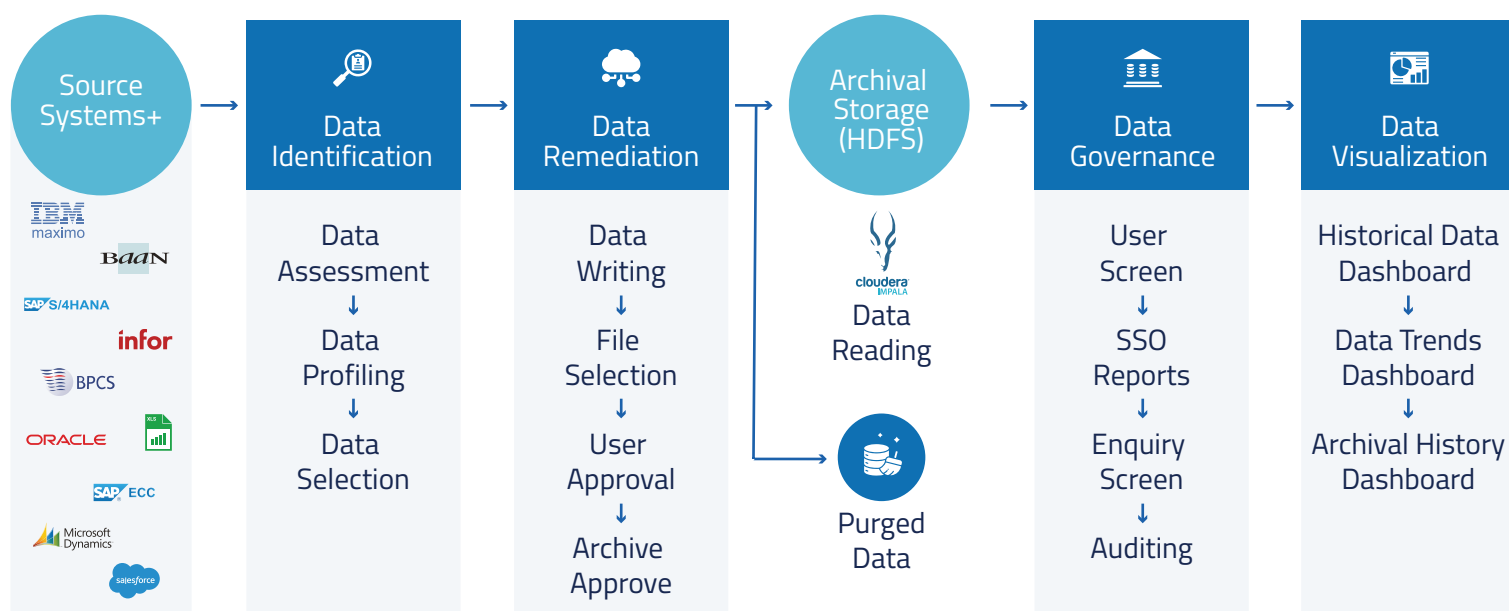
- **Scalable Solutions for Large Data:**

  ChainSys handles data migration volumes exceeding **100 million records** per project, ensuring scalability and seamless handling of large datasets.

# Real Life Use Cases with Scenario

| | |
|---|---|
| **Scenario** | A global energy solutions provider operating across North America, South America, Europe, Africa, the Middle East, and Asia Pacific implemented Oracle ERP Cloud to modernize its procurement, inventory, and payable systems. The client partnered with ChainSys for data migration, leveraging ChainSys's dataZap to tackle the complexities of transforming and migrating data from multiple legacy systems across 17 countries and 74 legal entities. |
| **Use Case** | Migrate master and transactional data from multiple legacy systems to Oracle ERP Cloud while ensuring data quality and readiness. |
| **ChainSys Solution** | <ul><li>Automated extraction and transformation with dataZap, using global cross-reference value sets.</li><li>Master data cleansing (items, suppliers) and governance via dataZen.</li><li>Template-based data conversion for all Oracle Cloud objects with pre- and post-validation rules.</li><li>Enabled consistent data migration for 17 countries and 74 legal entities.</li></ul> |
| **Outcomes** | <ul><li>Multiple iterations of data conversions completed quickly, improving data quality and process efficiency.</li><li>Phased rollouts became faster with reusable templates, ensuring accuracy across regions.</li><li>Accelerated regional rollouts with reusable tools and templates, ensuring smooth global implementation.</li></ul> |

## 2.3 Data Archival



Source Systems+
IBM maximo
BaaN
SAP S/4HANA
infor
BPCS
ORACLE
XLS
SAP ECC
Microsoft Dynamics
salesforce

**Data Identification**
Data Assessment
↓
Data Profiling
↓
Data Selection

**Data Remediation**
Data Writing
↓
File Selection
↓
User Approval
↓
Archive Approve

**Archival Storage (HDFS)**
cloudera IMPALA
Data Reading
Purged Data

**Data Governance**
User Screen
↓
SSO Reports
↓
Enquiry Screen
↓
Auditing

**Data Visualization**
Historical Data Dashboard
↓
Data Trends Dashboard
↓
Archival History Dashboard

ChainSys offers robust data archival solutions to manage historical data, ensuring data retention while optimizing storage space. Our solution helps in securely archiving inactive or less frequently used data, improving system performance, and ensuring compliance with regulatory requirements. dataZap, ChainSys's data archival product, is integrated with customizable rules, user-friendly screens, and automated archival processes.

## Why is Data Archival Critical?

- Optimizes Storage

- Improves Data Management

- Ensures Compliance

- Reduces Costs

- Enhances Security

## Challenges Organizations Face Due to Lack of Data Archival

- **Storage Overload**

  Without archiving, critical systems become bogged down with excess, outdated data, slowing down performance.

- **Increased Costs**

  Retaining large volumes of data without proper archiving results in higher storage and management expenses.

- **Compliance Risks**

  Lack of archiving can result in non-compliance with industry regulations, risking costly fines.

- **Data Accessibility Issues**

  Without organized archival, retrieving old data can be slow, inefficient, and prone to errors.

- **Security Vulnerabilities**

  Storing sensitive data without proper archival processes exposes it to unauthorized access and potential breaches.

# How we deliver Data Archival & Purging

- **Source Systems:**

  Integrates data from a wide array of platforms, including SAP, Oracle, Salesforce, and other enterprise solutions, ensuring comprehensive data consolidation and streamlined access across diverse systems.



- **Data Identification:**

  Involves thorough data assessment, profiling, and selection to identify the most relevant and high-value data for archival, ensuring that only necessary and compliant data is stored.
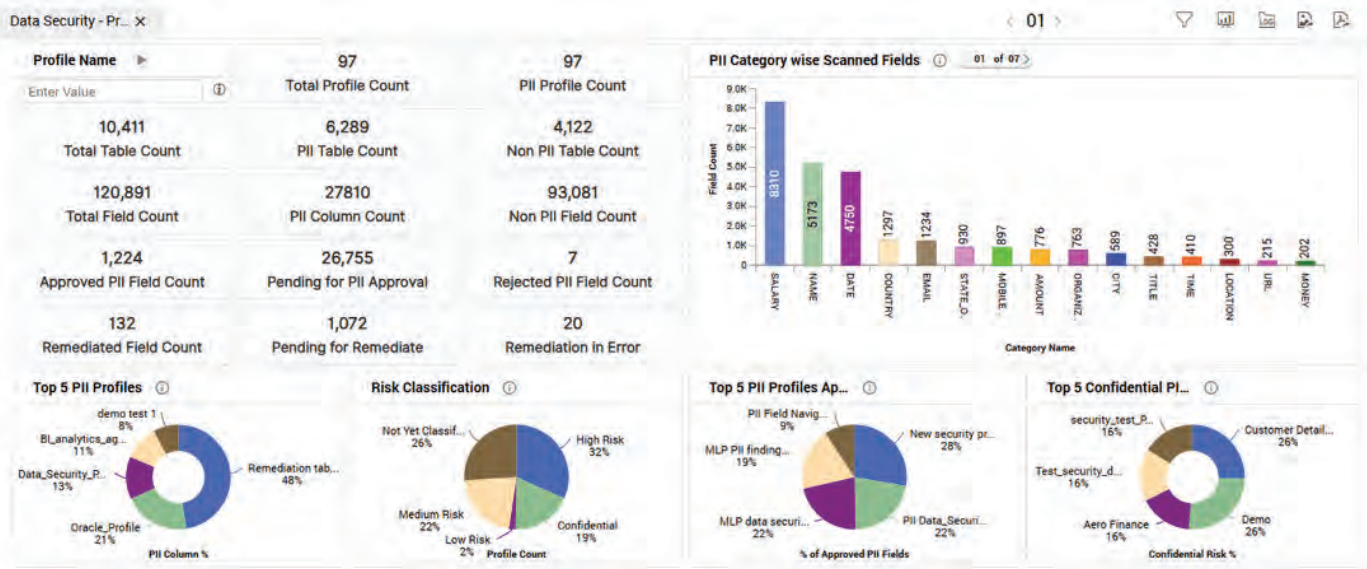
- **Data Remediation:**

  Ensures accurate data is identified for archival by data writing, selecting appropriate files, and obtaining necessary user approvals, thereby maintaining data integrity and transparency.
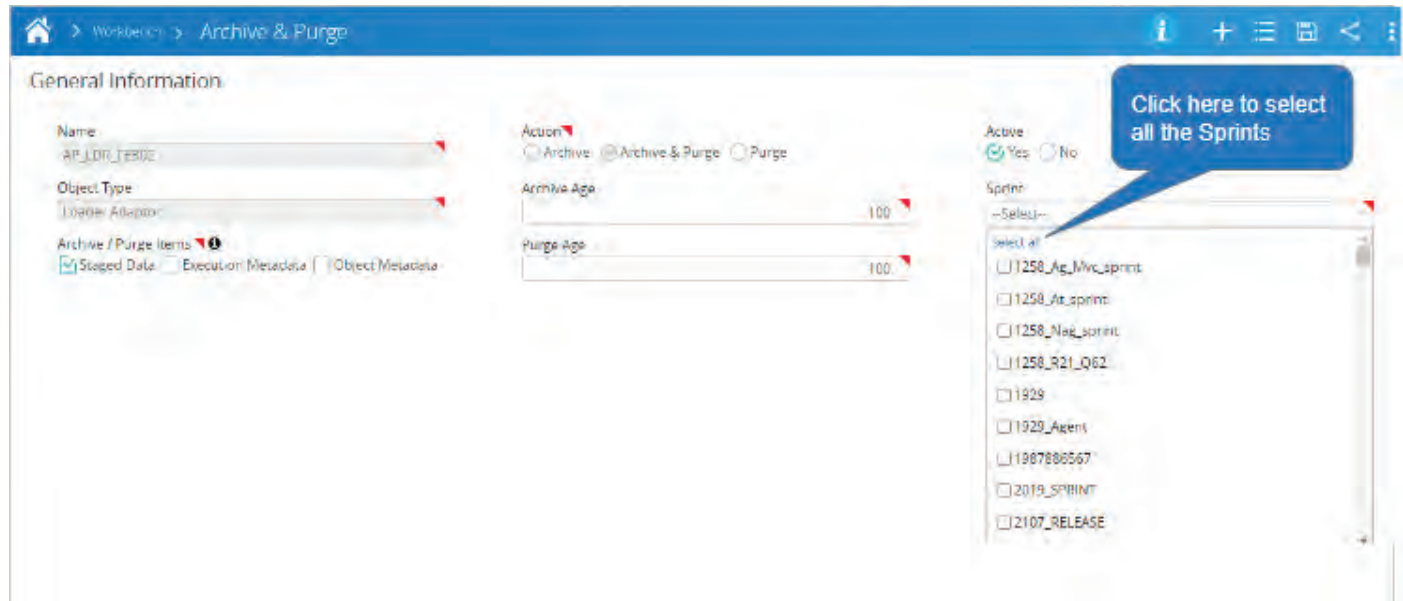


- **Archival Storage (HDFS):**

  Utilizes Hadoop Distributed File System (HDFS) as a secure, centralized repository for storing archived data, ensuring scalability, fault tolerance, and long-term data preservation.
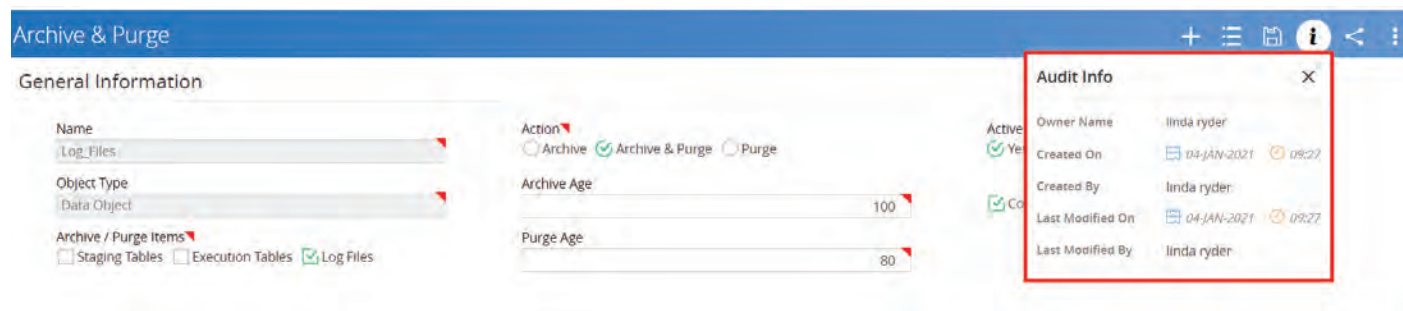


- **Data Visualization & Governance:**

  Enables effective data governance by offering visibility and control over archived data and Provides interactive dashboards to track historical trends, monitor user activity, and support compliance auditing.
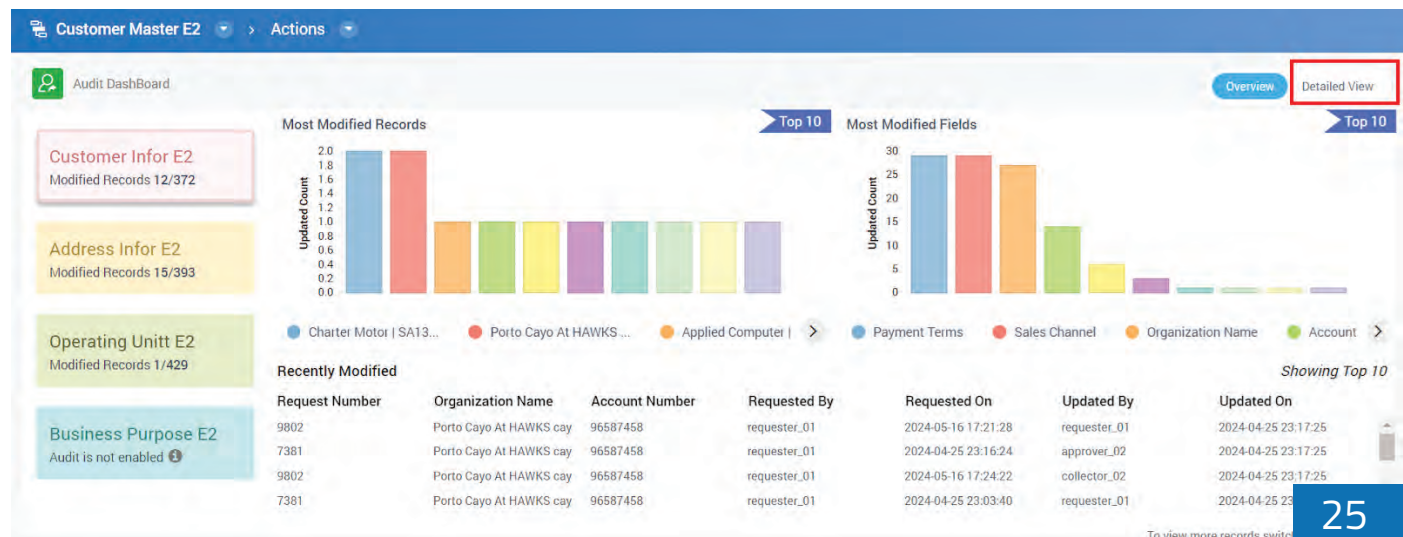
# Key Reasons to Choose ChainSys for Data Archival & Purging

- **Proven Expertise in Data Archival:**

  ChainSys has successfully completed 800+ data archival and purging projects worldwide, showcasing its proficiency in managing complex data environments with precision.

- **Accelerated Archival Process:**

  With over 1,500+ pre-built archival rules and workflows, ChainSys reduces data archival and purging timelines by 40-60%, ensuring efficient and timely data management.

- **Unmatched Data Accuracy:**

  ChainSys solutions deliver 99.98% data accuracy during archival and purging processes, safeguarding data integrity and minimizing risk.

- **High Client Retention:**

  ChainSys enjoys a 95% client retention rate in data archival and purging services, reflecting the trust and satisfaction of its customers.

- **Scalable Solutions:**

  ChainSys effectively handles data volumes exceeding 50 million records per archival project, demonstrating its ability to manage large-scale data environments seamlessly.

## Real Life Use Cases with Scenario

| | |
|---|---|
| Scenario | A global leader in cancer diagnostics, specializing in tissue processing and digital pathology, is transitioning from JD Edwards (JDE) to S4/HANA. The company plans to retire its legacy JD Edwards system while migrating open transaction data to S4/HANA and archiving historical data for auditing, regulatory compliance, and reuse. The company operates in the biotechnology industry with a focus on enhancing precision in cancer diagnostics. |
| Use Case | Archive JD Edwards tables to Azure Cloud and provide JDE-like application screens for historical data access.<br>Implement dashboards for viewing archived data. |
| ChainSys Solution | - DataZense archived 850 million records from JD Edwards in just 8 weeks using a prebuilt template that accelerated the process.<br>- 200+ dashboards were provided for viewing historical data from the cloud.<br>- 15+ application inquiry screens were configured to display data in the same format as the original JD Edwards system, allowing users to access archived data easily. |
| Outcomes | - The entire data archiving and migration process was completed in just 8 weeks, with an agile execution methodology enabled by prebuilt templates and a no programming approach.<br>- Archiving data on low-cost storage reduced operational and maintenance expenses associated with primary storage systems. |

## 2.4 Data Integration
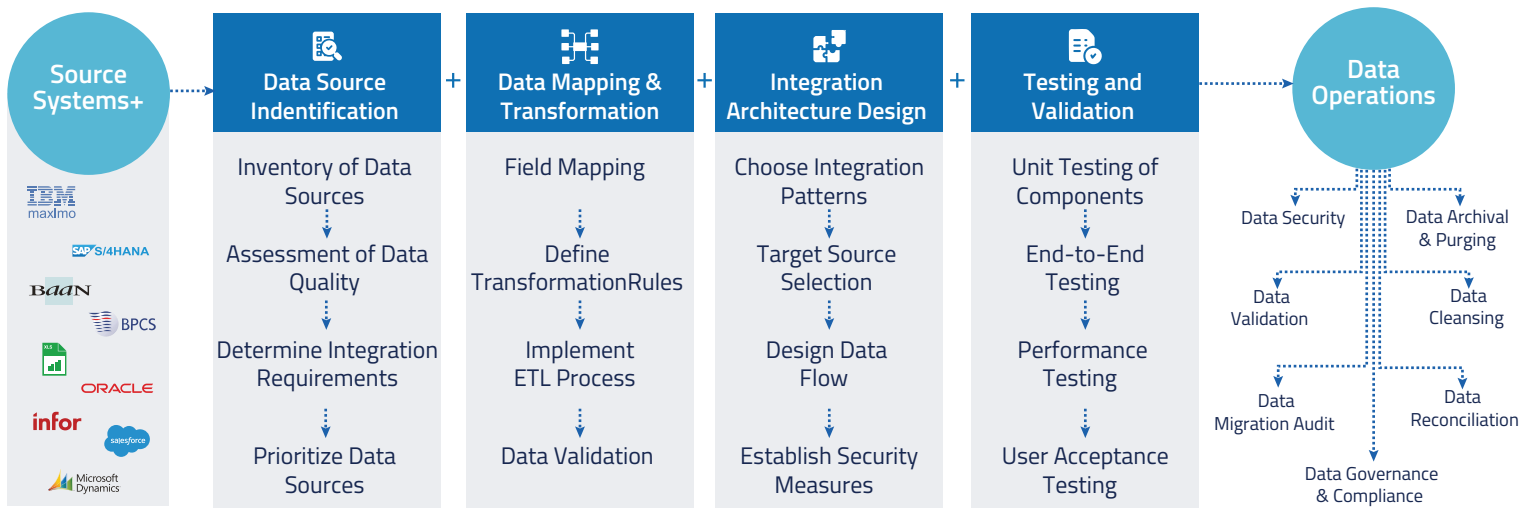


ChainSys Data Integration revolutionizes how organizations connect, manage, and leverage their data across diverse platforms. With cutting-edge tools and seamless API gateways, it ensures real-time Synchronization, robust data validation, and powerful cleansing processes. Whether it's ERP systems like SAP, Oracle, or Salesforce, ChainSys breaks down silos, enabling flawless integration across on-premise and cloud environments. By streamlining data flows and eliminating inefficiencies, ChainSys empowers businesses to harness the full potential of their data, driving innovation, operational excellence, and informed decision-making. With unparalleled scalability and reliability, ChainSys Data Integration is the backbone of your digital transformation.

## Why Data Integration is Critical?

- Improves Decision-Making

- Streamlines Operations

- Boosts Data Consistency

- Enhances Customer Experience

- Supports Scalability

# Challenges Organizations Face Due to Lack of Data Integration

- **Data Silos**

  Without integration, data remains isolated in different systems, limiting its accessibility and usefulness.

- **Inconsistent Data**

  Lack of integration results in data discrepancies across platforms, leading to confusion and errors in decision-making.

- **Operational Inefficiencies**

  Manually handling data from separate systems wastes time and resources, slowing down productivity.

- **Poor Customer Insights**

  Without integrated data, it's challenging to get a holistic view of customers, hindering personalized service.

- **Limited Scalability**

  Disconnected data systems can't easily support business growth or handle increasing data demands.

# How we deliver Data Integration

- **Data Source Identification:**

  Conduct thorough assessments to inventory and prioritize data sources, aligning them with integration requirements to ensure that the most relevant and high-priority data is accessible for Integration and processing.
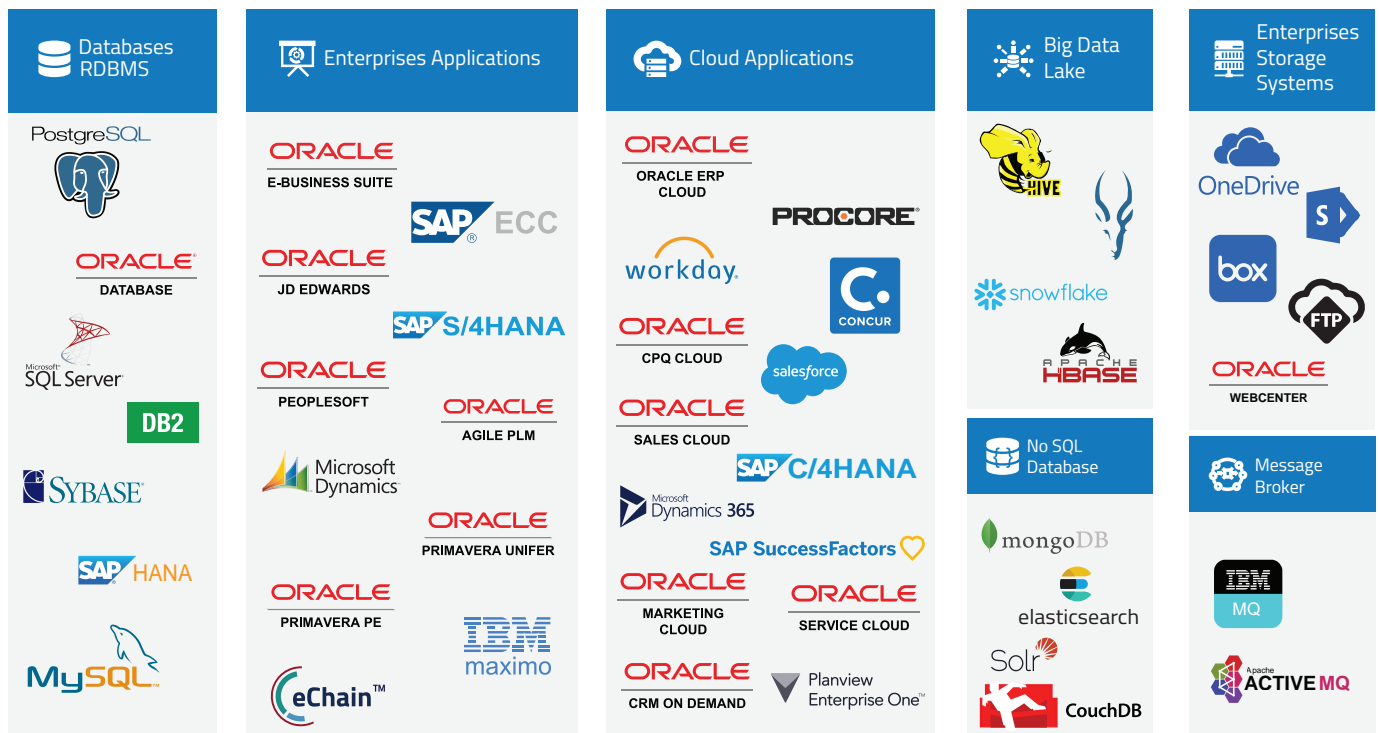
- **Data Mapping & Transformation:**

  Define precise transformation rules and implement efficient ETL (Extract, Transform, Load) processes, ensuring seamless data conversion and alignment with target systems while maintaining data integrity and consistency.





- **Integration Architecture Design:**

  Develop robust integration architectures, defining integration patterns, data flow configurations, and security measures to ensure secure, efficient, and scalable data connectivity across systems.
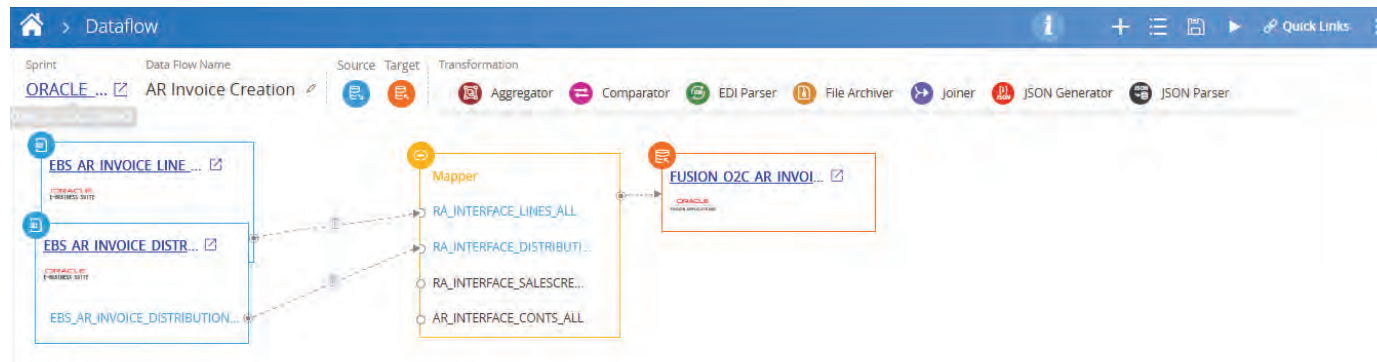
- **Testing and Validation:**

  Perform comprehensive testing, including component/unit tests, end-to-end validation, and user acceptance testing (UAT), to confirm the integrity, accuracy, and performance of the data integration solution before production deployment.

## Key Benefits of ChainSys Data Integration Solution

- **Proven Expertise in Data Integration:**

  ChainSys has successfully executed 500+ global data integration projects, ensuring flawless connectivity across complex enterprise environments.

- **Pre-built Connectors:**

  With over 1,500+ pre-built connectors, ChainSys accelerates integration with major enterprise systems like SAP, Oracle, Salesforce, and Microsoft, reducing development time by up to 50%.

- **Real-time Data Sync:**

  Achieve real-time data synchronization between multiple platforms, ensuring your business-critical applications always have up-to-date information without downtime.

- **High Performance at Scale:**

  ChainSys handles billions of records with ease, delivering unmatched scalability to accommodate high-volume data integrations for enterprises of all sizes.
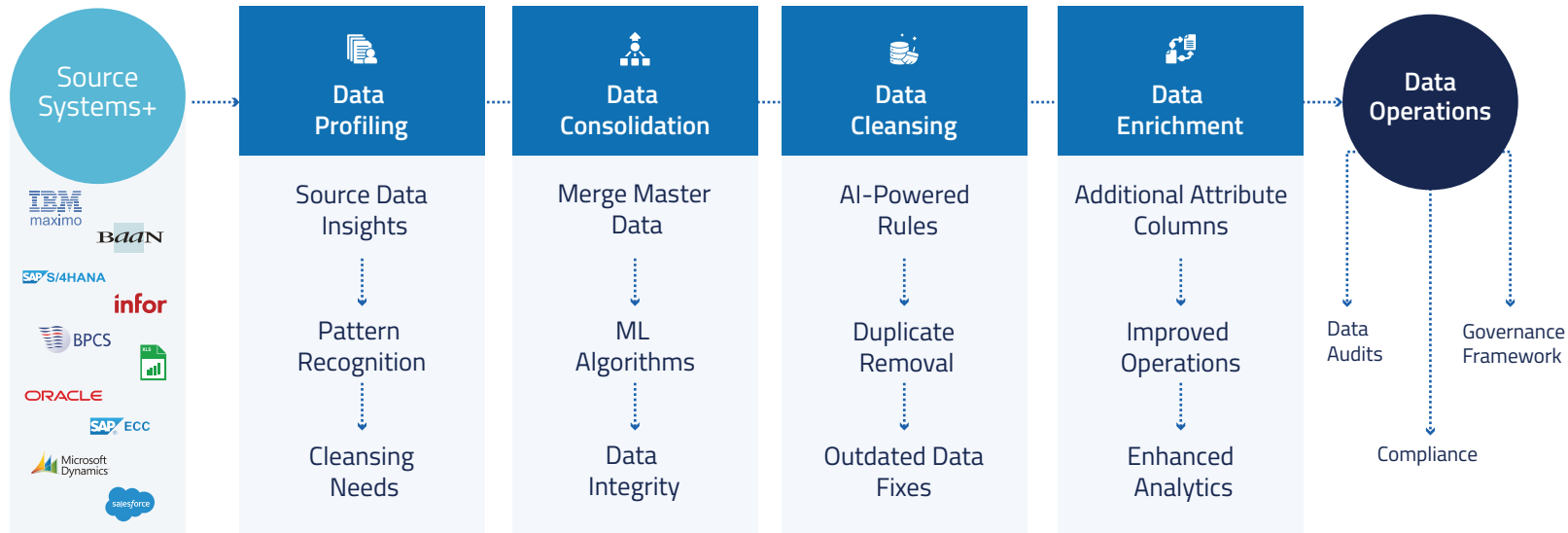
- **Cost-effective Integration:**

  ChainSys offers a flexible pricing model, ensuring that companies only pay for the services they use, making it a highly cost-efficient solution for any organization.

## Real Life Use Cases with Scenario

| | |
|---|---|
| Scenario | A university, known for its innovative technology adoptions, implemented Procore as a project management system to enhance the efficiency of campus construction projects. While SAP ECC served as their ERP backbone, they faced challenges in integrating Procore with SAP ECC. The project aimed to create a seamless data flow between the two systems, improving financial and project data accuracy. |
| Use Case | Integrate Procore and SAP ECC to eliminate data silos and enable real-time data flow. |
| ChainSys Solution | - Real-time integration reduced lead and lag times from 24 hours to instantaneous.<br>- Achieved 6-sigma confidence level in data reconciliation and improved data quality by 30% in 3 weeks. |
| Outcomes | - Eliminated dual data entry, saving each user 2-3 hours daily and reducing implementation costs by 50% through a 6-week timeline.<br>- Test cycles for SIT and UAT were reduced to under a day, ensuring faster adoption and accurate data flow. |

## 2.5 Data Quality Management

| Source Systems+ | Data Profiling | Data Consolidation | Data Cleansing | Data Enrichment | Data Operations |
|---|---|---|---|---|---|
| IBM maximo, Baan, SAP S/4HANA, infor, BPCS, XLS, ORACLE, SAP ECC, Microsoft Dynamics, salesforce | Source Data Insights → Pattern Recognition → Cleansing Needs | Merge Master Data → ML Algorithms → Data Integrity | AI-Powered Rules → Duplicate Removal → Outdated Data Fixes | Additional Attribute Columns → Improved Operations → Enhanced Analytics | Data Audits, Compliance, Governance Framework |

dataZen focuses on Data Quality, MDM, and Data Governance for Oracle Cloud Applications, SAP S/4HANA, SAP ECC, Oracle E-Business Suite, Microsoft Dynamics, Salesforce, and other Enterprise Systems. Our templatized Data Quality approach gives you an 80% head start on your MDM/Governance/Data Cleansing projects. It provides ready hubs for Material, Customer, and Vendor domains.

## Why is Data Quality Management Critical?

- Ensures Accurate Insights

- Improves Operational Efficiency

- Supports Compliance

- Boosts Customer Satisfaction

- Eliminates Poor Data

dataZen™

# Challenges Organizations Face Due to Lack of Data Quality Management

- **Inaccurate Decision-Making**

  Poor data quality leads to flawed business strategies, resulting in costly mistakes.

- **Operational Disruptions**

  Low-quality data causes system errors, delays, and inefficiencies, disrupting business operations.

- **Compliance Risks**

  Bad data may lead to non-compliance with regulations, resulting in penalties and reputational damage.

- **Customer Dissatisfaction**

  Incorrect or inconsistent data can lead to poor customer experiences, damaging relationships and brand reputation.

- **Increased Costs**

  The need to fix data errors or deal with the consequences of bad data increases operational costs.

# How we deliver Data Quality Management

- **Data Profiling:**

  Conduct in-depth analysis of source data to uncover valuable insights, identify patterns, and determine cleansing requirements, ensuring that the data is ready for further processing and integration.
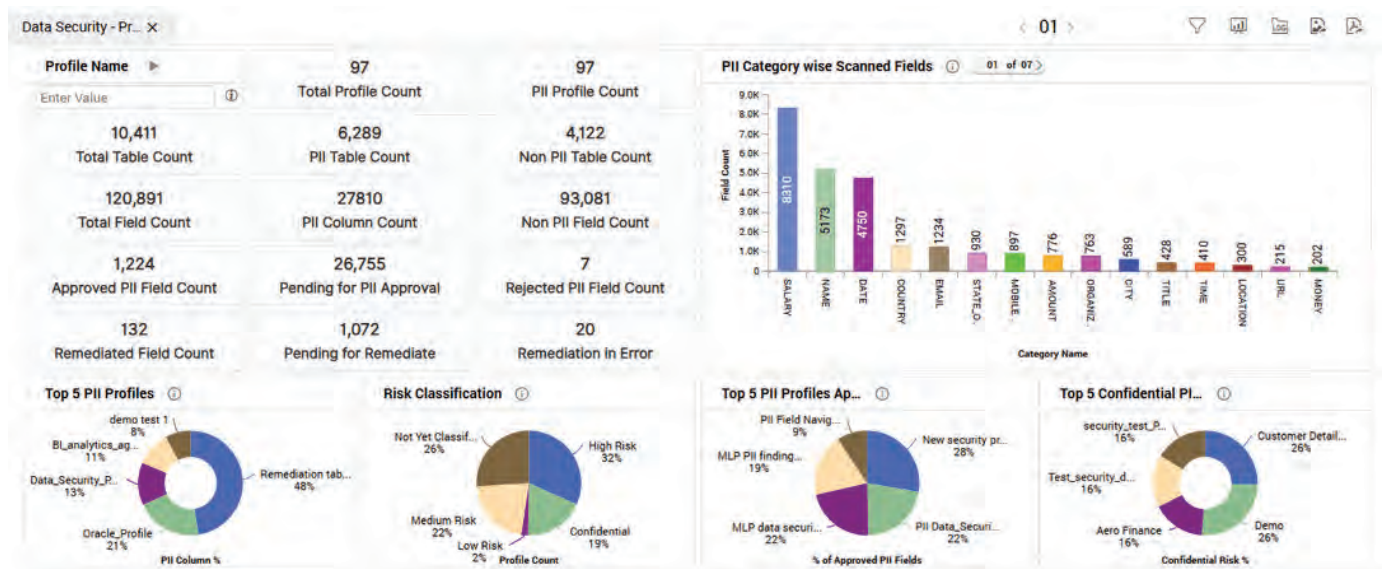
- **Data Consolidation:**

  Merge master data from disparate sources, ensuring data integrity and consistency across systems. Utilize machine learning (ML) algorithms for advanced deduplication and data harmonization, improving overall data quality.

  

- **Data Cleansing:**

  Systematically remove duplicates, correct outdated or inaccurate data, and apply AI-driven rules to ensure the data is accurate, complete, and aligned with business standards for operational use.

  

- **Data Enrichment:**

  Augment data by adding relevant attributes to enhance operational processes, improve decision-making, and maximize the value of analytics, driving business intelligence and strategic insights.
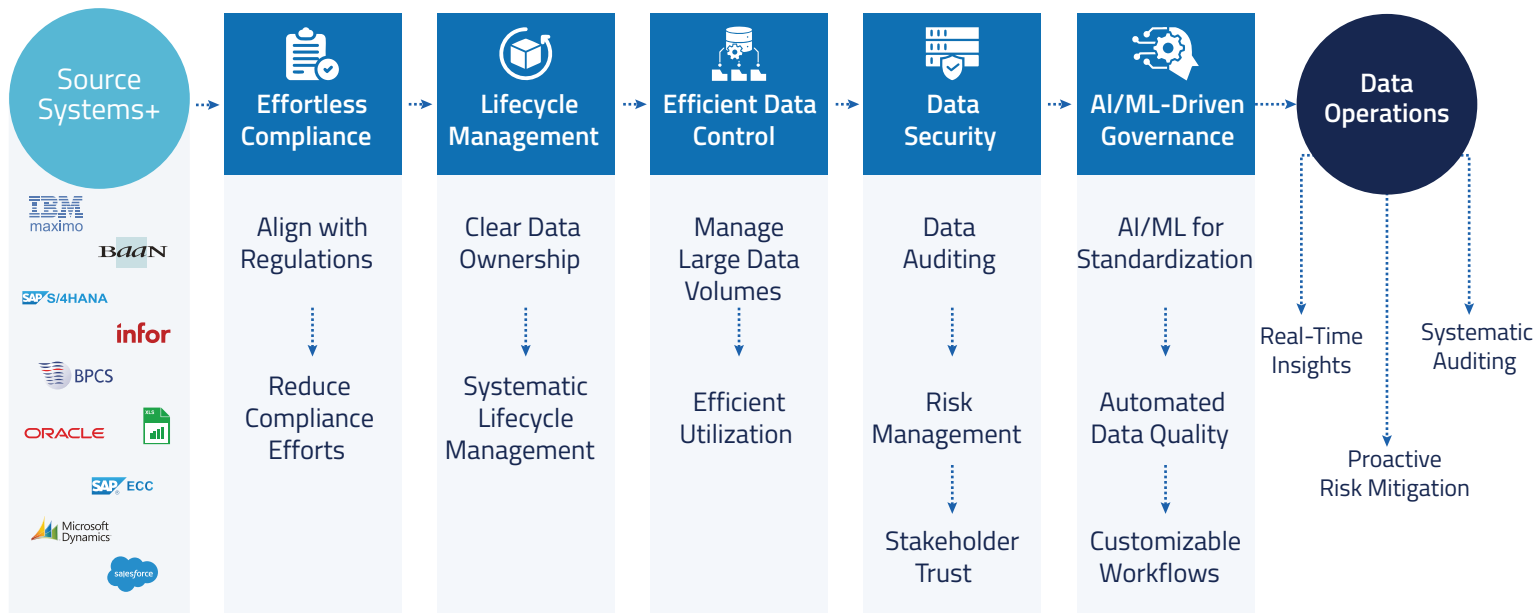
# Key Benefits of ChainSys Data Quality Management Solution

- **Supports Over 200+ Applications:**
  Seamlessly integrates with **200+ enterprise applications**, including **Oracle, SAP, Microsoft, and Salesforce**, ensuring wide compatibility.

- **Scalability:**
  ChainSys's platform scales to handle over **1 billion records** in data quality management.

- **Smart Data Templates:**
  The solution offers **3,000+ Smart Data Templates** for data extraction, cleansing, and loading, reducing project time by over **60%**.

- **Real-Time Data Cleansing:**
  Automated workflows ensure data is continuously cleansed and validated in real time, reducing errors and improving efficiency.

## Real Life Use Cases with Scenario

| | |
|---|---|
| Scenario | A global leader in water heater and boiler manufacturing, established in 1904, operates across 150+ countries, including the USA, UK, EU, and Asia. The company faced challenges in maintaining clean master data for Customers, Suppliers, and Materials while ensuring workflow automation for Master Data Governance (MDG). |
| Use Case | Integrated warehouse management system with ERP, ensuring synchronized inventory data. |
| ChainSys Solution | <ul><li>Implemented 60+ business rules for Vendors and 100+ rules for Customers and Materials.</li><li>Integrated custom validations, such as vertex tax calculations for Customer/Vendor addresses based on ZIP codes.</li><li>Implemented Industrial Manufacturing MDM templates for Customers and Suppliers.</li><li>Delivered customer, supplier, and product 360-degree analytics for better data visibility.</li></ul> |
| Benefits | <ul><li>Master data quality health checks ensured continuous improvement.</li><li>Reduced Customer and Vendor onboarding time to less than 24 hours.</li><li>Clean and accurate data enhanced customer experiences.</li><li>Eliminated repetitive manual tasks, reducing IT dependency.</li></ul> |

## 2.6 Data Governance

| Source Systems+ | Effortless Compliance | Lifecycle Management | Efficient Data Control | Data Security | AI/ML-Driven Governance | Data Operations |
|---|---|---|---|---|---|---|
| IBM maximo | Align with Regulations | Clear Data Ownership | Manage Large Data Volumes | Data Auditing | AI/ML for Standardization | |
| BaaN | | | | | | Real-Time Insights |
| SAP S/4HANA | Reduce Compliance Efforts | Systematic Lifecycle Management | Efficient Utilization | Risk Management | Automated Data Quality | Systematic Auditing |
| infor | | | | | | Proactive Risk Mitigation |
| BPCS | | | | Stakeholder Trust | Customizable Workflows | |
| ORACLE | | | | | | |
| SAP ECC | | | | | | |
| Microsoft Dynamics | | | | | | |
| salesforce | | | | | | |

ChainSys's Data Governance solution ensures data quality, consistency, and security across the enterprise by providing a holistic framework for governing data, enabling businesses to maintain control over their data lifecycle, from creation to disposal. ChainSys's solution supports policies, procedures, and workflows to enforce data standards.

## Why Data Governance is Critical?

- Data Accuracy

- Compliance Assurance

- Risk Mitigation

- Data Quality

- Operational Efficiency

# Challenges Organizations Face Due to Lack of Data Governance

- **Poor Data Quality**

  Without governance, data may become inconsistent, outdated, or inaccurate, leading to incorrect insights and decisions.

- **Non-Compliance**

  Lack of governance can result in violations of data regulations, leading to hefty fines and legal consequences.

- **Data Security Risks**

  Without clear governance, sensitive data becomes vulnerable to breaches and unauthorized access.

- **Inefficiency & Duplication**

  Uncontrolled data management leads to redundancy and inefficiency, impacting workflow and storage.

- **Lack of Accountability**

  Without governance, it's harder to track data ownership and accountability, leading to confusion and errors.

## How we deliver Data Governance

- **Effortless Compliance:**

  Ensures seamless alignment with regulatory requirements, significantly reducing compliance burdens and simplifying complex regulatory processes. This helps organizations stay ahead of ever-evolving compliance standards.

- **Data Lifecycle Management:**

  Defines clear data ownership, implements systematic lifecycle strategies, and promotes efficient data utilization across its entire lifecycle, from creation to archival and disposal, optimizing resource management and business outcomes.



- **Data Security:**

  Enhances auditing capabilities, strengthens risk management processes, and fosters trust among stakeholders by safeguarding sensitive data through robust security measures, ensuring confidentiality, integrity, and availability.
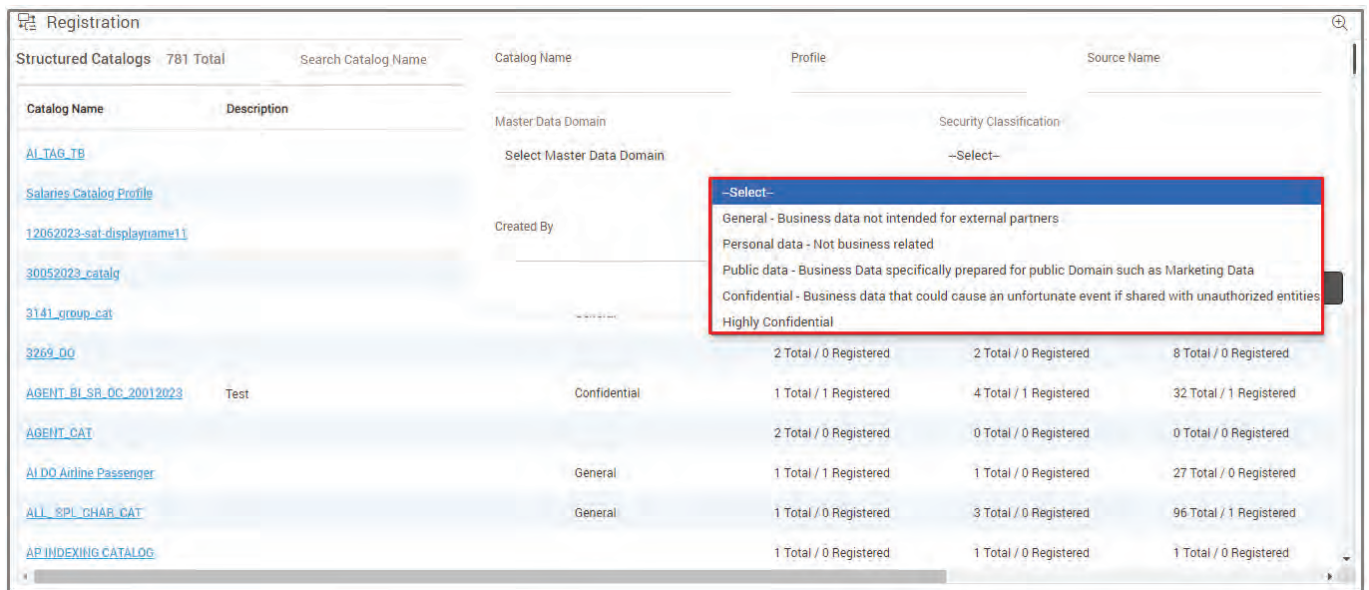
- **AI/ML-Driven Governance:**

  Leverages artificial intelligence (AI) and machine learning (ML) to automate governance processes, standardize data handling, and enhance workflows, driving improvements in data quality, compliance, and operational efficiency.



# Key Benefits of ChainSys Data Governance Solution

- **Data Democratization:**

  Ensures role-based access control and data discovery for efficient collaboration across teams.

- **Automation for Data Quality:**

  The platform utilizes AI/ML to automate data quality checks and flag discrepancies in real-time, enabling continuous improvement.

- **Regulatory Compliance:**

  ChainSys provides tools for automated compliance checks with regulations such as GDPR, HIPAA, and CCPA, reducing manual effort and ensuring proactive governance.
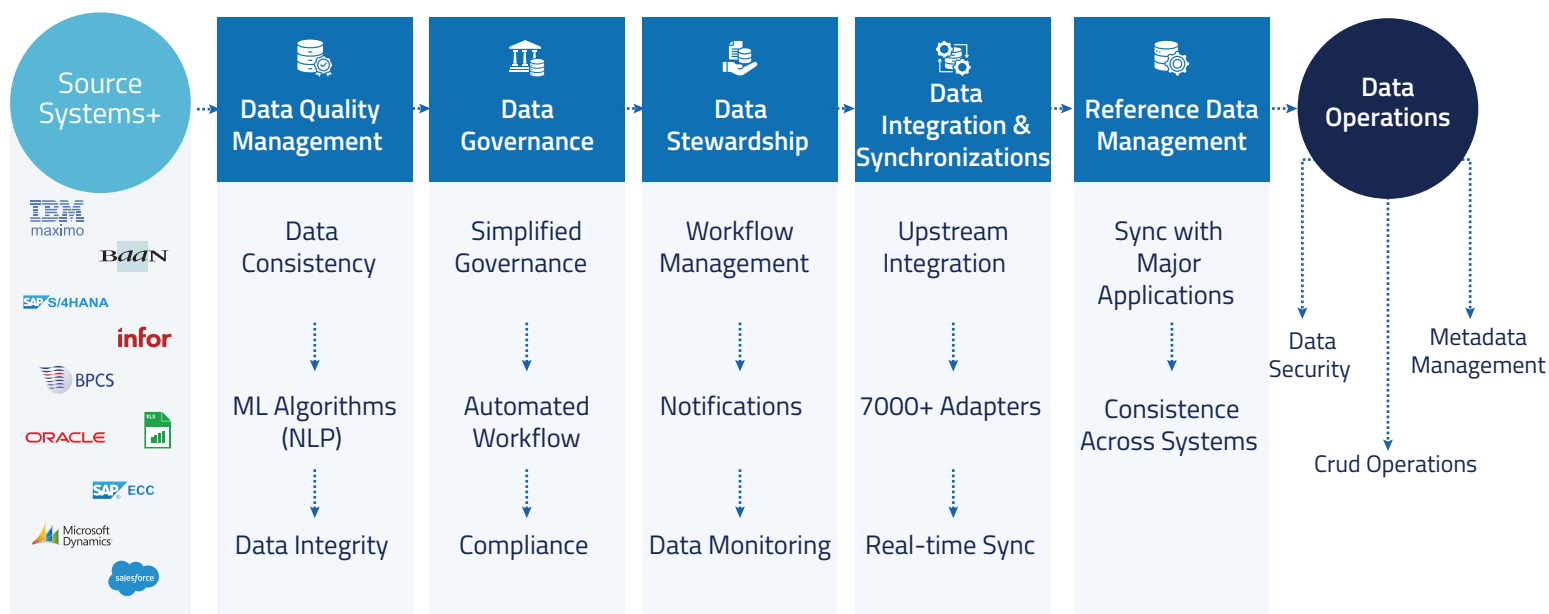
- **Integration with 200+ Applications:**

  Seamless integration with over 200 enterprise applications, providing ease of data governance across platforms such as HCM, CRM, and Supply Chain.

# Real Life Use Cases with Scenario

| | |
|---|---|
| **Scenario** | A biotechnology company headquartered in San Rafael, CA, faced challenges with customer onboarding due to manual, inconsistent processes. Onboarding took over three weeks, causing delays, poor customer experiences, and inaccurate master data. They required a data governance solution to streamline processes, maintain clean data, and reduce lead time. |
| **Use Case** | The manual onboarding process involved fragmented data collection, multiple forms, and no structured workflows. This led to inconsistent data, increased lead times, and inefficiencies in integrating customer data into Oracle R12.1.3. |
| **ChainSys Solution** | Using dataZen, the company implemented:<br>• A single-entry MDM form for customer onboarding.<br>• Automated, SLA-driven workflows with email notifications.<br>• Bulk data update capabilities for incomplete records.<br>• Dynamic validations for consistent data quality.<br>• Seamless Oracle integration for real-time updates.<br>• Comprehensive reporting for tracking and audit. |
| **Outcomes** | • Reduced onboarding time to under a week.<br>• Clean, consistent customer data enabling operational excellence.<br>• Improved customer experience through streamlined workflows.<br>• Sustained data quality via governance processes. |

## 2.7 Master Data Management



**Source Systems+**
IBM maximo
Baan
SAP S/4HANA
infor
BPCS
ORACLE
SAP ECC
Microsoft Dynamics
salesforce

| Data Quality Management | Data Governance | Data Stewardship | Data Integration & Synchronizations | Reference Data Management | Data Operations |
|---|---|---|---|---|---|
| Data Consistency | Simplified Governance | Workflow Management | Upstream Integration | Sync with Major Applications | |
| ML Algorithms (NLP) | Automated Workflow | Notifications | 7000+ Adapters | Consistence Across Systems | Data Security / Metadata Management |
| Data Integrity | Compliance | Data Monitoring | Real-time Sync | | Crud Operations |

ChainSys's Master Data Management (MDM) solution ensures a single source of truth for enterprise data by consolidating and managing master data across different systems. It supports data cleansing, enrichment, and synchronization, ensuring that business-critical data is accurate and up-to-date across applications.

## Why Master Data Management is Critical?

- Centralized Data

- Consistent Information

- Enhanced Accuracy

- Streamlined Operations

- Single Source

## Challenges Organizations Face Due to Lack of Master Data Management

- **Data Inconsistencies**

  Without MDM, data across systems may conflict, leading to confusion and poor decision-making.

- **Operational Inefficiencies**

  Duplicate or inconsistent data causes delays and wasted resources, affecting business operations.

- **Compliance Issues**

  Inaccurate master data can lead to non-compliance with industry regulations, resulting in fines and legal risks.

- **Poor Customer Insights**

  Disconnected customer data prevents a complete view, hindering personalization and customer service.

- **Increased Costs**

  Managing disorganized data is time-consuming and costly, requiring additional resources to correct errors.

# How we deliver Master Data Management

- **Data Quality Management:**

  Maintains data consistency, integrity, and accuracy by leveraging advanced technologies like machine learning and natural language processing (NLP). Ensures high-quality data that supports informed decision-making and operational efficiency.



- **Data Governance:**

  Implements simplified workflows, ensures compliance with regulatory standards, and employs automated governance processes to maintain transparency, accountability, and control over data assets.
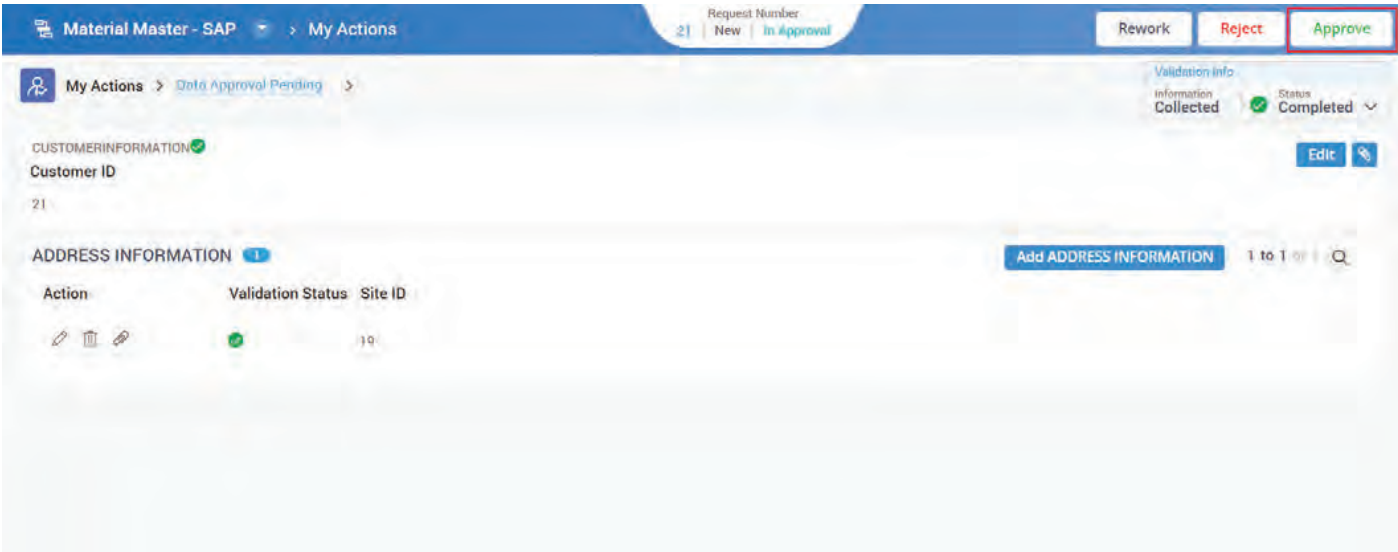
- **Data Integration & Synchronization:**

    Seamlessly integrates with over 7,000 adapters, enabling real-time synchronization and ensuring streamlined operations across various platforms, fostering unified and efficient data ecosystems.
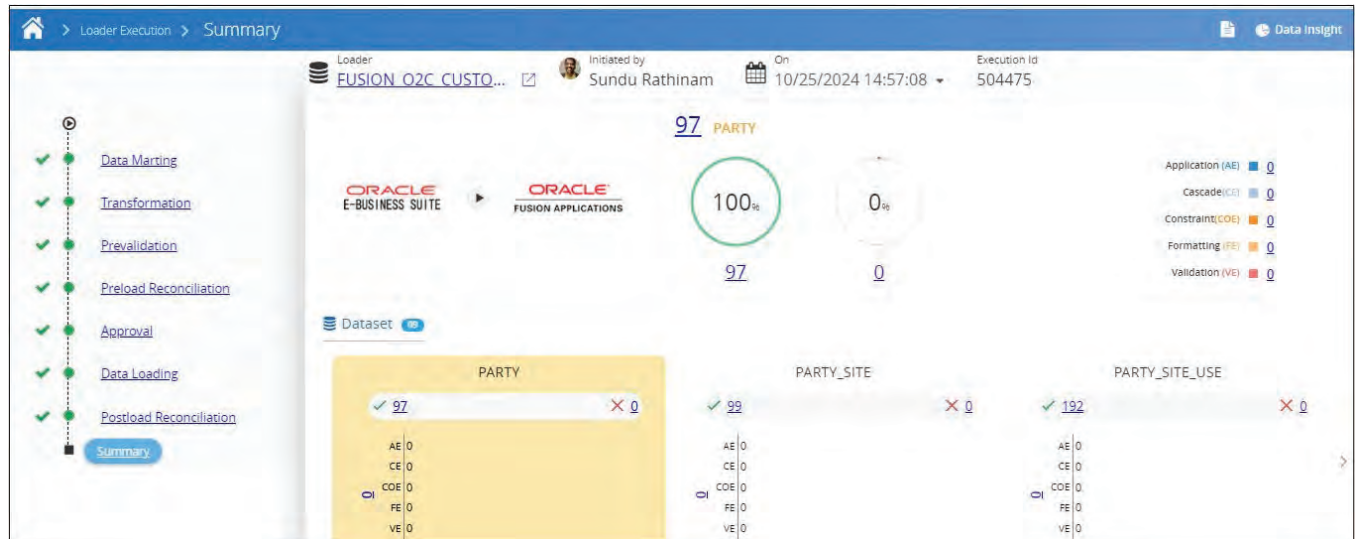


- **Reference Data Management:**

    Synchronizes reference data with major applications, ensuring consistent and harmonized data across all systems, reducing discrepancies, and supporting accurate analytics and reporting.

# Key Benefits of ChainSys Master Data Management Solution

- **Pre-built Master Data Templates:**

  ChainSys offers 7,000+ pre-built templates for managing master data across 200+ endpoints.

- **Data Integration & Synchronization:**

  Integration of data from upstream systems with seamless synchronization across downstream systems using 7,000+ adapters.

- **Rapid Implementation:**

  ChainSys has successfully implemented MDM governance projects in under 12 weeks for large organizations.
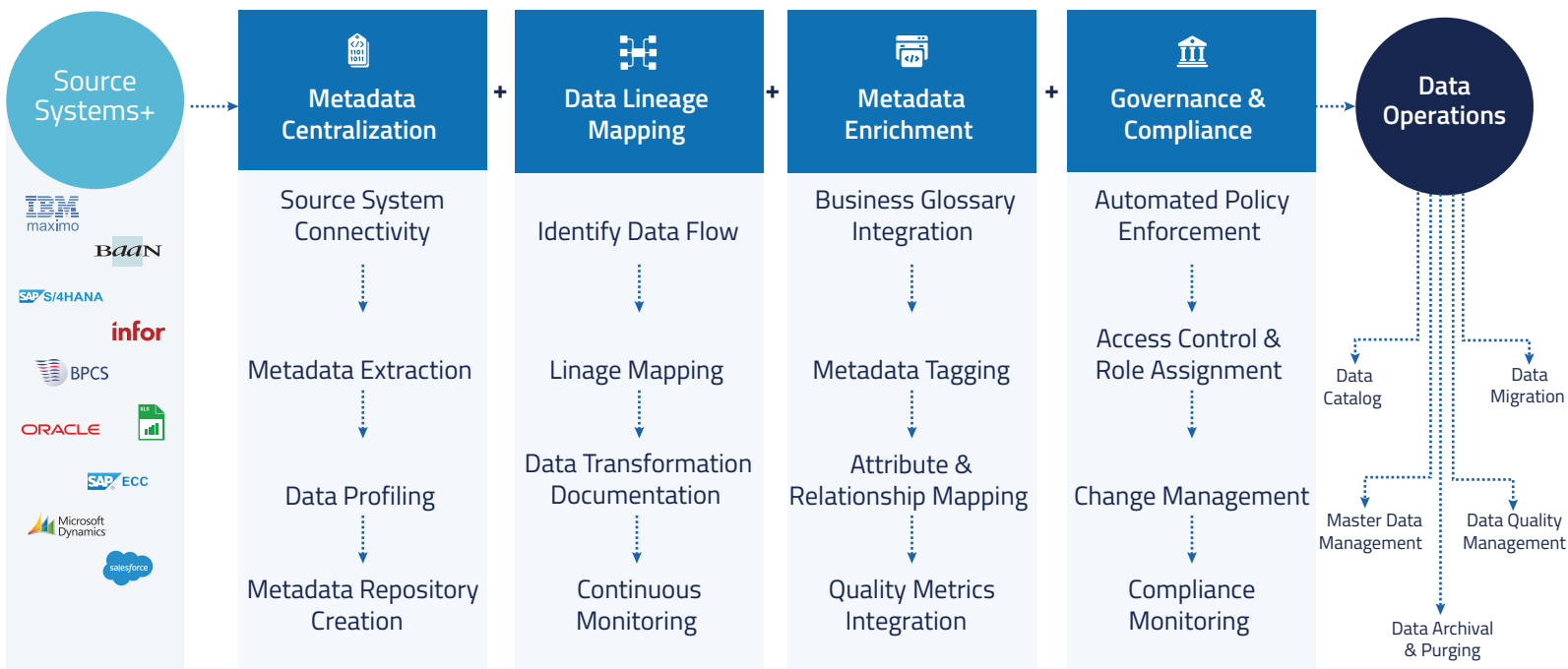
- **Data Quality Management:**

  The platform uses AI/ML-powered workflows to automate data quality checks and ensure data consistency.

- **Multi-domain MDM Support:**

  Supports a wide array of domains including customers, suppliers, products, and equipment, with features like Customer 360, Product 360, and Supplier 360.

# Real Life Use Cases with Scenario

| | |
|---|---|
| Scenario | A global technology, engineering, and construction provider for the energy industry required data migration to Oracle Cloud ERP. The project involved 35 objects across Procurement, Inventory, and Payable systems, with data sourced from multiple legacy systems containing duplicates, errors, and inconsistencies. GL code transformation was another critical need. |
| Use Case | The client faced challenges with cleansing and transforming master data (customers, suppliers, and chart of accounts) from six different source systems. A successful migration required functional teams knowledgeable in both legacy systems and Oracle Cloud ERP to address the data transformation needs effectively. |
| ChainSys Solution | <ul><li>Cleanse and deduplicate customer and supplier data across six source systems.</li><li>Enrich customer and supplier data using D&B and USPS services.</li><li>Deduplicate and consolidate chart of accounts from six systems.</li><li>Automate data extraction, transformation, and enrichment processes.</li><li>Use global cross-reference value sets for automated transformation rules.</li><li>Implement a "stay clean" process for the chart of accounts with user-friendly screens.</li></ul> |
| Outcomes | <ul><li>Ensured data accuracy through validation and cleansing before migration.</li><li>Streamlined transformations and mappings between source systems and Oracle.</li><li>Enabled global implementation of master data before regional rollouts.</li><li>Provided clear visibility into master data states.</li></ul> |

## 2.8 Active Metadata Management



**Source Systems+**
IBM maximo
Baan
SAP S/4HANA
infor
BPCS
ORACLE
SAP ECC
Microsoft Dynamics
salesforce

**Metadata Centralization**
Source System Connectivity
Metadata Extraction
Data Profiling
Metadata Repository Creation

**+**

**Data Lineage Mapping**
Identify Data Flow
Linage Mapping
Data Transformation Documentation
Continuous Monitoring

**+**

**Metadata Enrichment**
Business Glossary Integration
Metadata Tagging
Attribute & Relationship Mapping
Quality Metrics Integration

**+**

**Governance & Compliance**
Automated Policy Enforcement
Access Control & Role Assignment
Change Management
Compliance Monitoring

**Data Operations**
Data Catalog
Data Migration
Master Data Management
Data Quality Management
Data Archival & Purging

ChainSys's Active Metadata Management solution enables real-time visibility and control over enterprise metadata. It automates metadata extraction, enrichment, and relationship mapping, ensuring accurate and up-to-date insights. With dynamic lineage tracking, impact analysis, and integrated quality metrics, it facilitates smarter decision-making and robust data governance. This solution empowers organizations to optimize data usage, ensure compliance, and drive business agility.

## Why Active Metadata Management is Critical?

- Improves Data Discovery

- Enhances Data Governance

- Promotes Data Quality

- Fosters Collaboration

- Supports Data Integration

# Challenges Organizations Face Due to Lack of Active Metadata Management

- **Data Silos**

  Without a metadata management, data remains scattered across systems, making it difficult to access and utilize effectively.

- **Data Inconsistencies**

  Lack of a catalog leads to untracked and unmanaged data, causing discrepancies and quality issues.

- **Compliance Risks**

  Without proper tracking and documentation, organizations may struggle to meet regulatory requirements.

- **Inefficient Data Management**

  Without a central reference point, finding and understanding data becomes slow and prone to errors.

- **Poor Collaboration**

  Teams working with disjointed data have trouble sharing insights, hindering effective decision-making and collaboration.

# How we deliver Active Metadata Management

- **Source Systems**

  Data is sourced from platforms like Oracle, SAP, Salesforce, and others, ensuring comprehensive input for metadata extraction and operations.

- **Metadata Centralization**

  Metadata is extracted, profiled, and stored in a centralized repository, providing structured access and streamlining further processes.
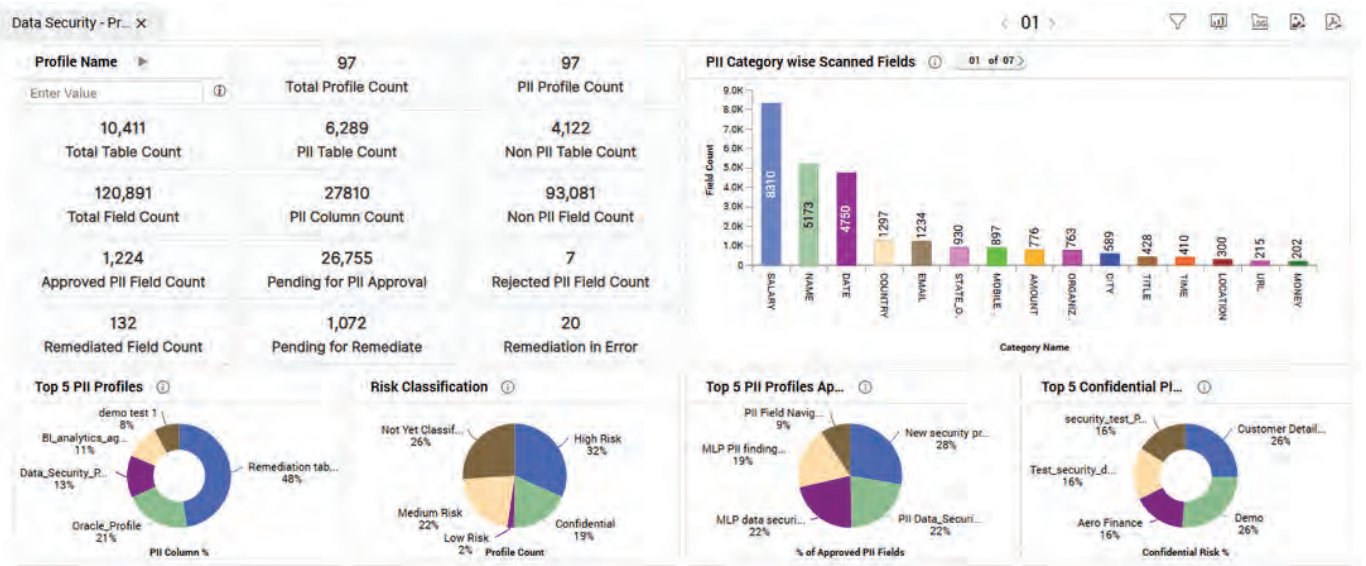


- **Data Lineage Mapping**

  Data flow is traced, linkages are mapped, and transformations are documented, enabling continuous monitoring and traceability.

- **Metadata Enrichment**

  Business glossaries, metadata tagging, and relationship mapping enhance data context, while quality metrics improve usability.



- **Governance & Compliance**

  Policies are enforced, roles are assigned, and changes are managed to ensure compliance with data integrity and regulatory standards.
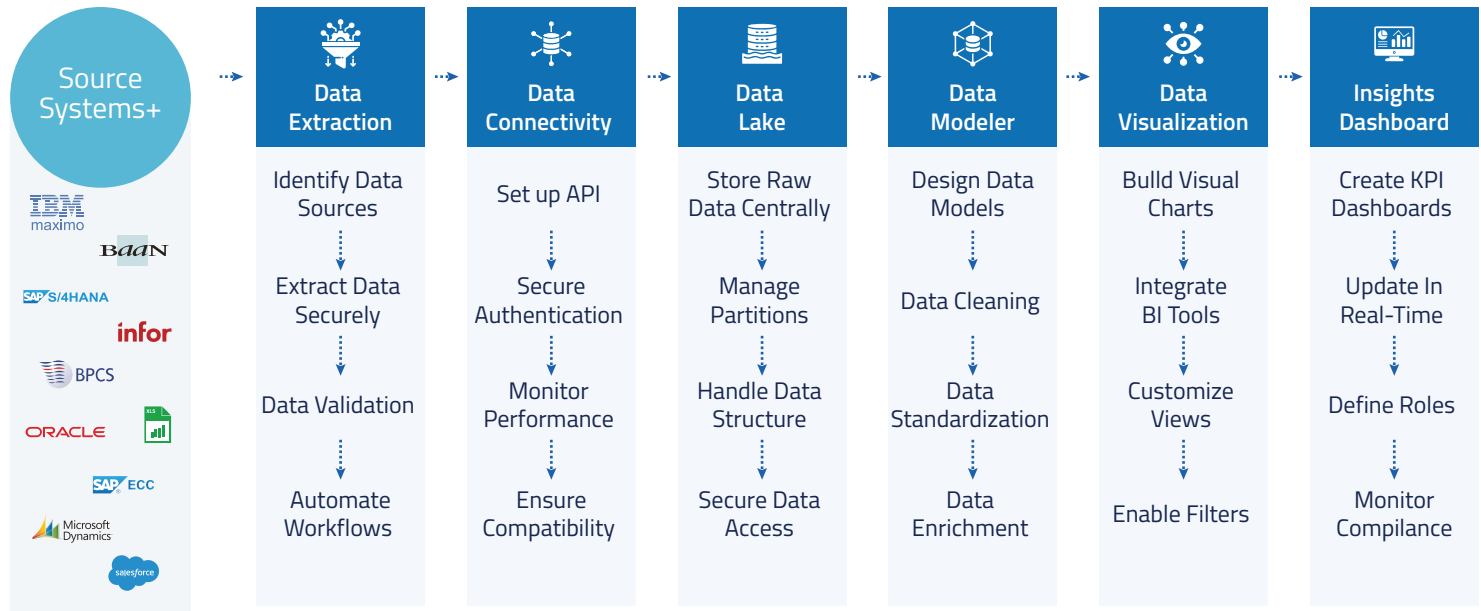
# Key Benefits of ChainSys Metadata Management Solution

- **Comprehensive Metadata Coverage:**

  ChainSys manages **100%** of metadata across various enterprise systems, ensuring no data asset is overlooked in the governance process.

- **Rapid Implementation:**

  With ChainSys's pre-built connectors and templates, businesses can implement active metadata management solutions **50% faster** than traditional methods.

- **Enhanced Data Discovery:**

  ChainSys's solutions increase data discovery efficiency by **75%**, enabling quicker access to relevant data assets and reducing the time spent on manual searches.

- **Improved Data Quality:**

  Organizations using ChainSys for active metadata management report a **40% reduction in data errors**, leading to more accurate and reliable decision-making.

- **High Client Satisfaction:**

  ChainSys maintains a **95% client satisfaction** rate in metadata management projects, reflecting strong customer trust and successful project outcomes.

# Real Life Use Cases with Scenario

| | |
|---|---|
| Scenario | A leader in aviation and aerospace services, delivers cutting-edge products for airports, airlines, and aircraft, focusing on passenger processing, airport operations, and baggage routing. Despite its innovative services, it faces challenges with siloed operations across 8 business units and 15 shared services. With vast datasets stored in spreadsheets and a lack of data governance, the organization struggles to derive full value from its data assets. |
| Use Case | The absence of a centralized repository for metadata, data lineage documentation, or a data catalog hindered the ability to derive actionable insights. To address this, the organization aimed to build a Data Catalog to centralize metadata, enhance data governance, and improve data literacy, enabling better data accessibility and compliance while leveraging its data assets for greater business value. |
| ChainSys Solution | ChainSys implemented dataZense, hosted on a private Azure cloud.<br>The Data Catalog module:<br>• Centralized metadata collection and management.<br>• Enhanced data governance with Data Stewards/Data Owners enriching data assets.<br>• Protected sensitive data, such as PII, by identifying and restricting access. |
| Outcomes | • Consolidated data from disparate spreadsheets and PDFs into a centralized repository.<br>• Enabled better organization and access to metadata, improving data literacy across the organization.<br>• Strengthened data governance, allowing customization for individual business units.<br>• Identified sensitive data fields, ensuring compliance and security. |

## 2.9 Data Analytics

| Source Systems+ | Data Extraction | Data Connectivity | Data Lake | Data Modeler | Data Visualization | Insights Dashboard |
|---|---|---|---|---|---|---|
| IBM maximo | Identify Data Sources | Set up API | Store Raw Data Centrally | Design Data Models | Build Visual Charts | Create KPI Dashboards |
| BaaN | Extract Data Securely | Secure Authentication | Manage Partitions | Data Cleaning | Integrate BI Tools | Update In Real-Time |
| SAP S/4HANA | Data Validation | Monitor Performance | Handle Data Structure | Data Standardization | Customize Views | Define Roles |
| infor | Automate Workflows | Ensure Compatibility | Secure Data Access | Data Enrichment | Enable Filters | Monitor Compilance |
| BPCS | | | | | | |
| ORACLE | | | | | | |
| SAP ECC | | | | | | |
| Microsoft Dynamics | | | | | | |
| salesforce | | | | | | |

ChainSys's dataZense provides a powerful data analytics platform that empowers organizations to derive actionable insights from their data. Our solution supports advanced analytics, predictive modeling, and real-time reporting, enabling businesses to make data-driven decisions faster and more accurately.

## Why Data Analytics is Critical?

- Informed Decisions

- Trend Identification

- Operational Efficiency

- Predictive Insights

- Competitive Advantage

# Challenges Organizations Face Due to Lack of Data Analytics

- **Poor Decision-Making**

  Without data-driven insights, organizations rely on guesswork, leading to ineffective strategies and missed opportunities.

- **Operational Inefficiencies**

  A lack of analytics prevents businesses from identifying bottlenecks, optimizing workflows, and reducing costs.

- **Inability to Identify Trends**

  Organizations struggle to recognize market patterns, customer behaviors, and emerging risks, putting them at a competitive disadvantage.

- **Revenue Loss**

  Without data-driven insights, businesses fail to maximize sales, optimize pricing, and improve customer retention, directly impacting profitability.

- **Increased Risks**

  Poor data visibility leads to compliance issues, security vulnerabilities, and financial miscalculations, increasing exposure to risks.

- **Lack of Personalization**

  In industries like retail, healthcare, and banking, failing to analyze customer data results in generic experiences and lower engagement.

## How we deliver Data Analytics

- **Data Extraction:**

  Secure, accurate data extraction with validation and workflow automation to minimize manual intervention.

- **Data Connectivity:**

  APIs ensure secure, reliable data transfer with authentication, performance monitoring, and compatibility checks.



- **Data Lake:**

  A centralized, structured data lake stores raw data, with access controls for security and future processing.
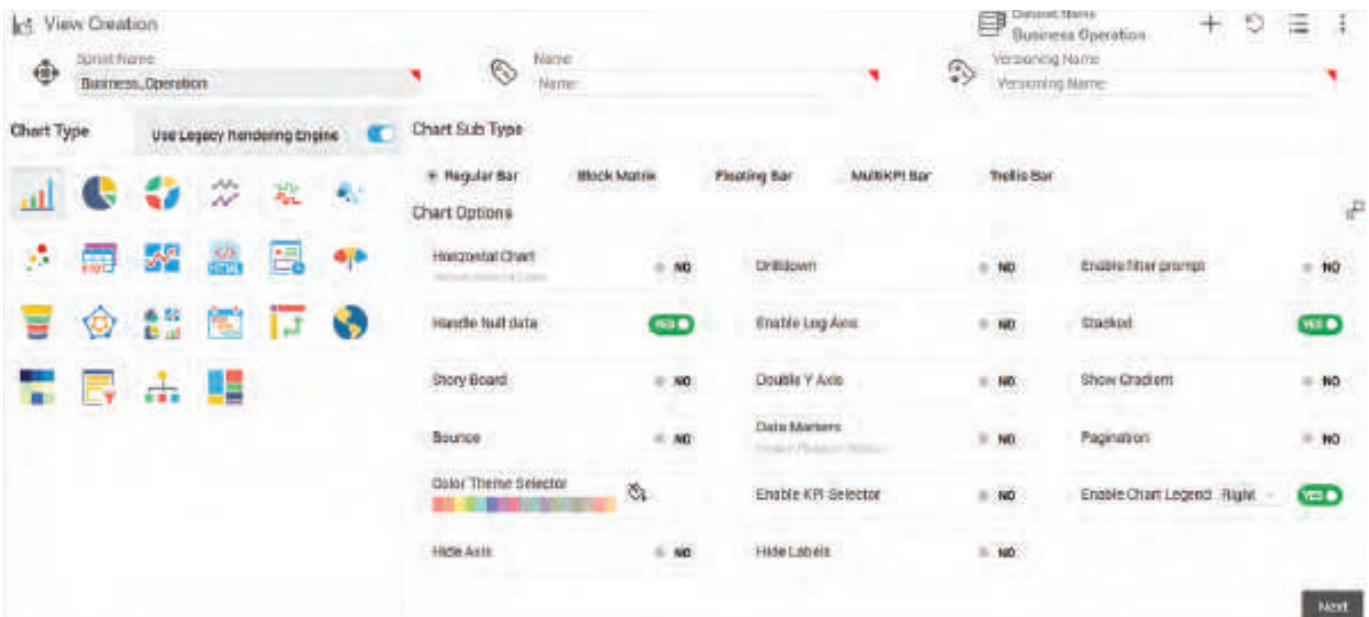
- **Data Modeler:**

  Transforms raw data into clean, standardized, and enriched formats for advanced analysis and decision-making.
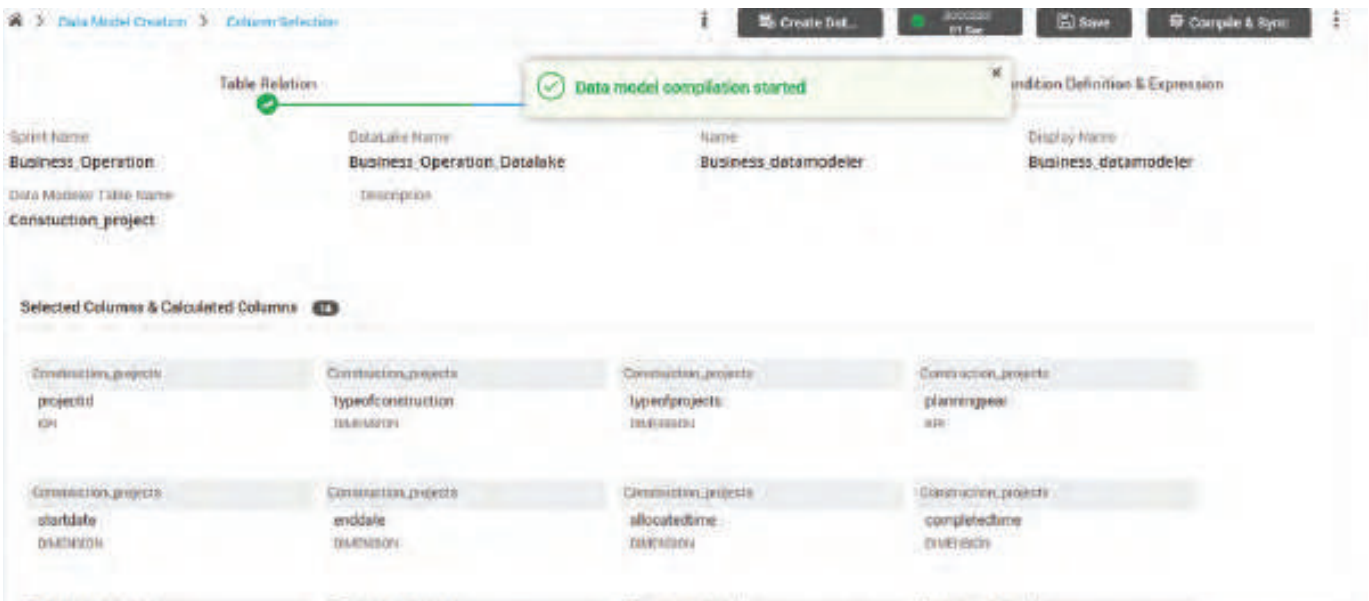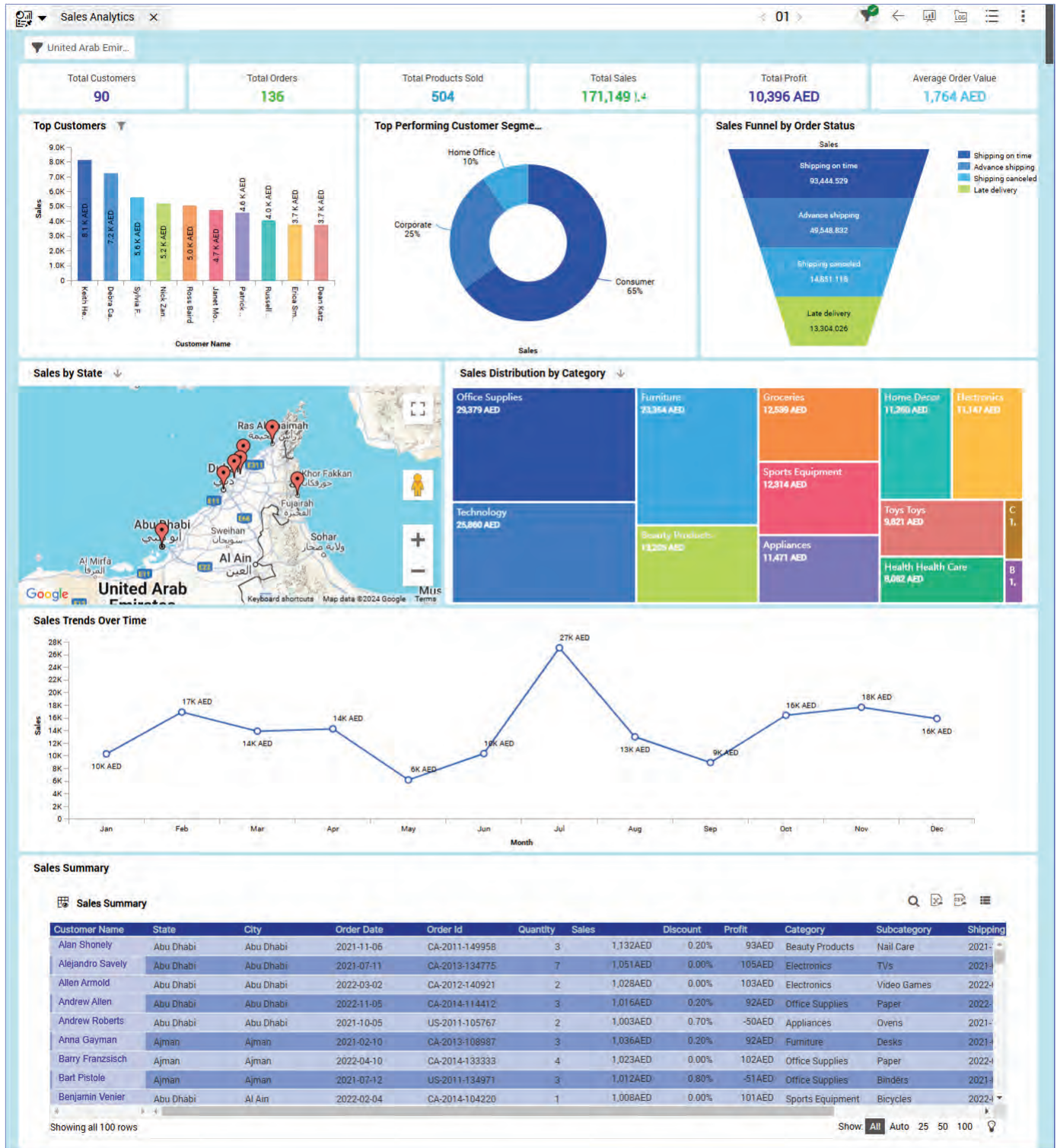
  

- **Data Visualization:**

  Insights are visualized through customizable charts and dashboards, allowing easy exploration.

- **Insights Dashboard:**

  Dynamic dashboards provide real-time updates on KPIs, ensuring secure access and compliance.

# Key Benefits of ChainSys Data Analytics Solution

- **Proven Success in Data Management:**

  ChainSys has helped businesses implement **200+ powerful dashboards** across industries for **data archival** and reconciliation projects

- **Efficiency and Speed:**

  ChainSys Data Analytics tools provide ready-to-use **7,000+ Smart Data Templates** for **data extraction, transformation, and loading .**

- **Comprehensive Data Analytics:**

  Support for **multi-source data** from over **200 applications**, including ERP systems like **SAP S/4HANA, Oracle EBS, Salesforce**, and others

- **Time Savings:**

  Our analytics solutions helped businesses achieve **80%-90% readiness** for data migration and management projects .

# Real Life Use Cases with Scenario

| | |
|---|---|
| Scenario | A leading Canadian telecom company, leveraging world-class wireless and fiber networks, provides innovative services like Fixed-line and Mobile Telephony, Fiber Internet and TV, Connected Cars, Smart Cities, IoT, and Data Analytics. Their SAP applications manage critical, high-volume ERP data, leading to database growth and high costs when migrating to S/4 HANA. |
| Use Case | The client aimed to remove obsolete data from SAP systems through archiving and purging. Before data removal, they needed to analyze the data's health, quality, and volume to ensure efficient migration to S/4 HANA. |
| ChainSys Solution | ChainSys proposed dataZense, a cloud-based data analytics solution running on the ChainSys Smart Data Platform. This solution provided:<br>• Column profiling, table profiling, and data relation analysis<br>• Automated match algorithms with dashboards for Matched, Unmatched, Survivor and Victim data.<br>• Analytics for data dependencies and migration readiness. |
| Outcomes | • Identified data quality issues.<br>• Highlighted downstream master data dependencies.<br>• Provided insights into potential duplications.<br>• Recommended data archiving and governance strategies.<br>• Prepared clean, high-quality data for S/4 HANA migration. |

## 2.10 Data Security
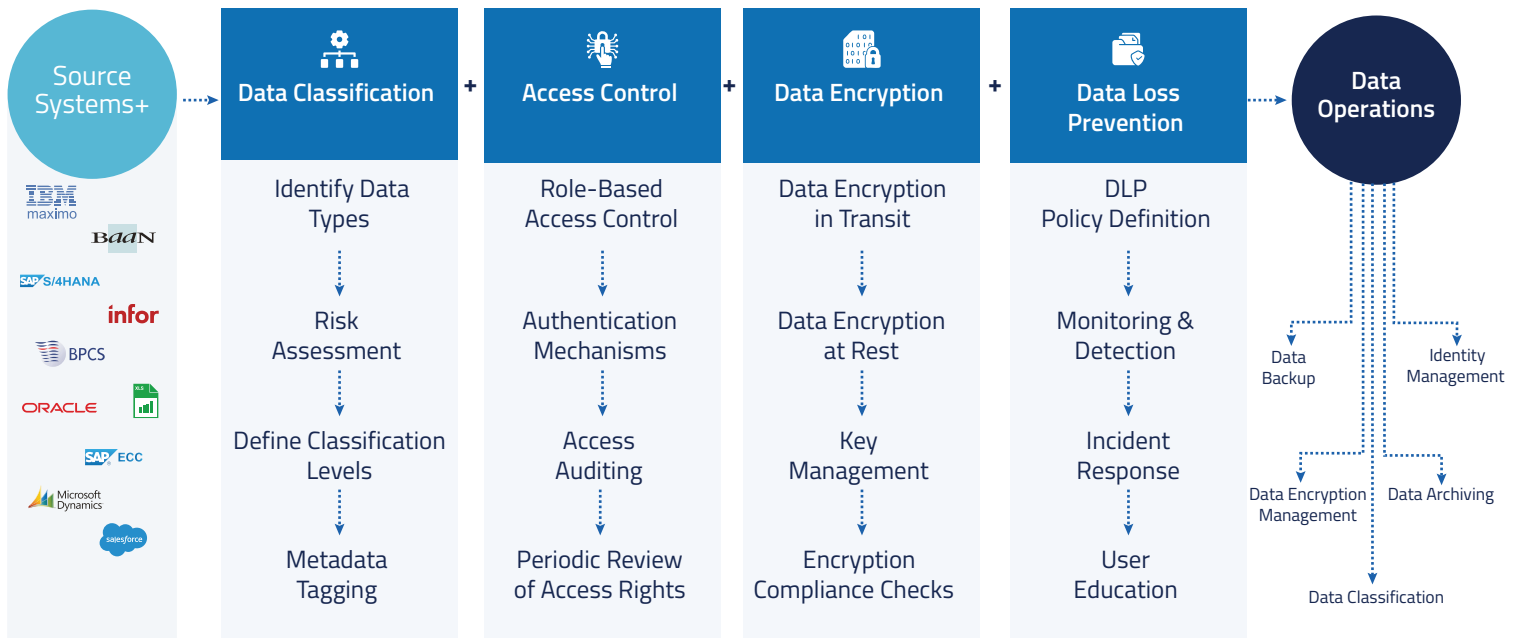


ChainSys ensures data protection through advanced security solutions. Our offerings safeguard sensitive information, ensuring compliance with security standards and minimizing risks.

## Why is Data Security Critical?

- Protects Sensitive Information
- Ensures Regulatory Compliance
- Prevents Financial Loss
- Reduces Cybersecurity Risks
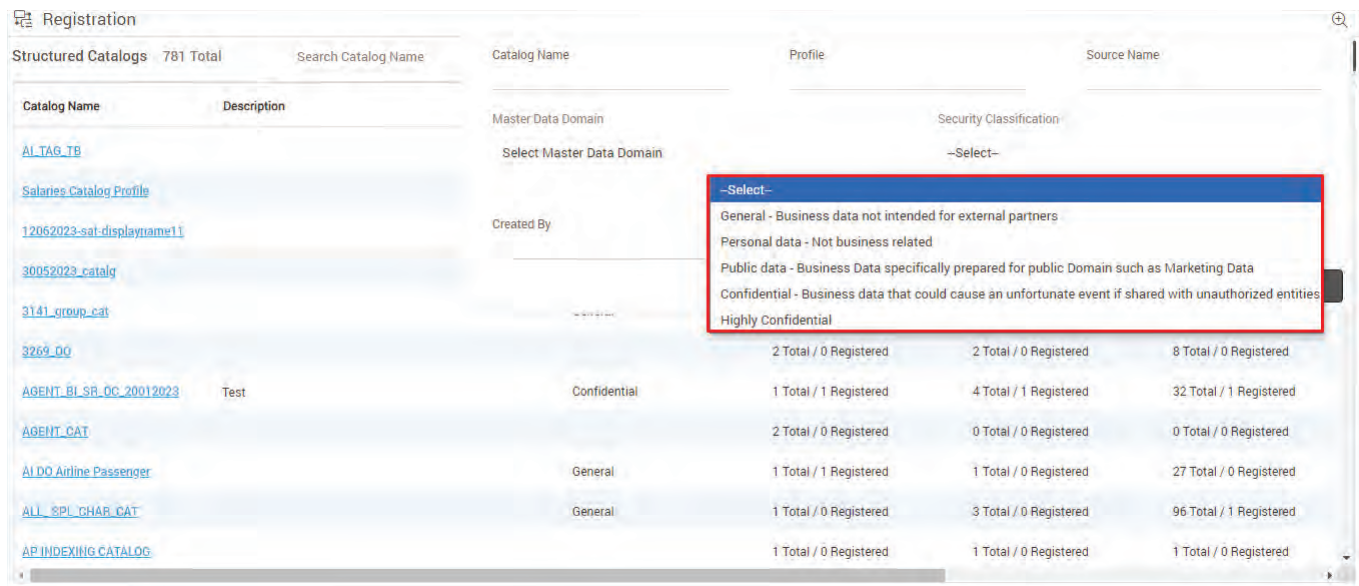- Access Control

## Challenges Organizations Face Due to Lack of Data Security

- **Increased Risk of Data Breaches**

  Weak security makes data vulnerable to cyberattacks, leading to potential data leaks.

- **Legal and Compliance Violations**

  Failure to protect data can result in non-compliance, attracting heavy penalties.

- **Financial Damages**

  Cyber incidents lead to costly downtime, loss of business, and expensive remediation efforts.

- **Loss of Customer Trust**

  A security breach can damage a company's reputation, causing customers to leave.

- **Operational Disruptions**

  Attacks like ransomware can paralyze business operations, leading to lost productivity and revenue.

# How we deliver Data Security

- **Data Classification:**

  Identify and categorize data types, assess associated risks, define appropriate security levels, and tag metadata to ensure that sensitive and critical data is handled according to regulatory and organizational requirements.
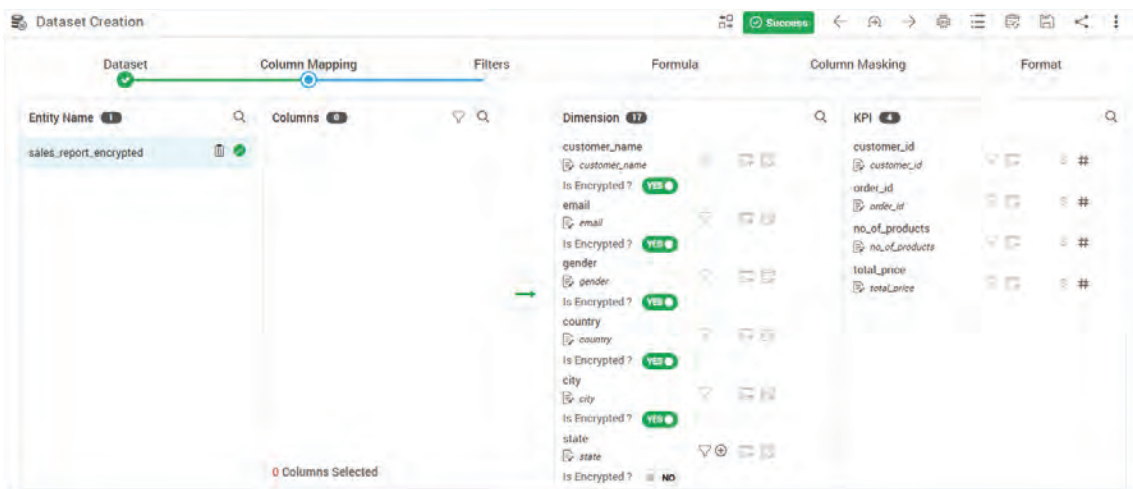


- **Access Control:**

  Implement robust role-based access controls, integrate authentication mechanisms, and perform periodic audits to ensure that only authorized users can access data, mitigating unauthorized access and potential security breaches.
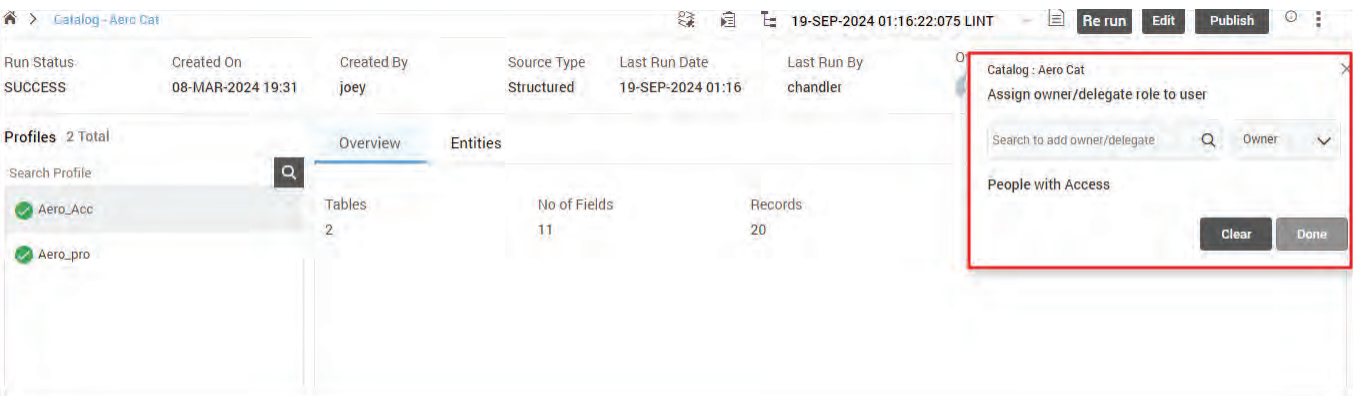
- **Data Encryption:**

  Secure data both during transit and at rest using advanced encryption techniques. Regularly conduct compliance checks and manage encryption keys to protect sensitive information from unauthorized exposure.
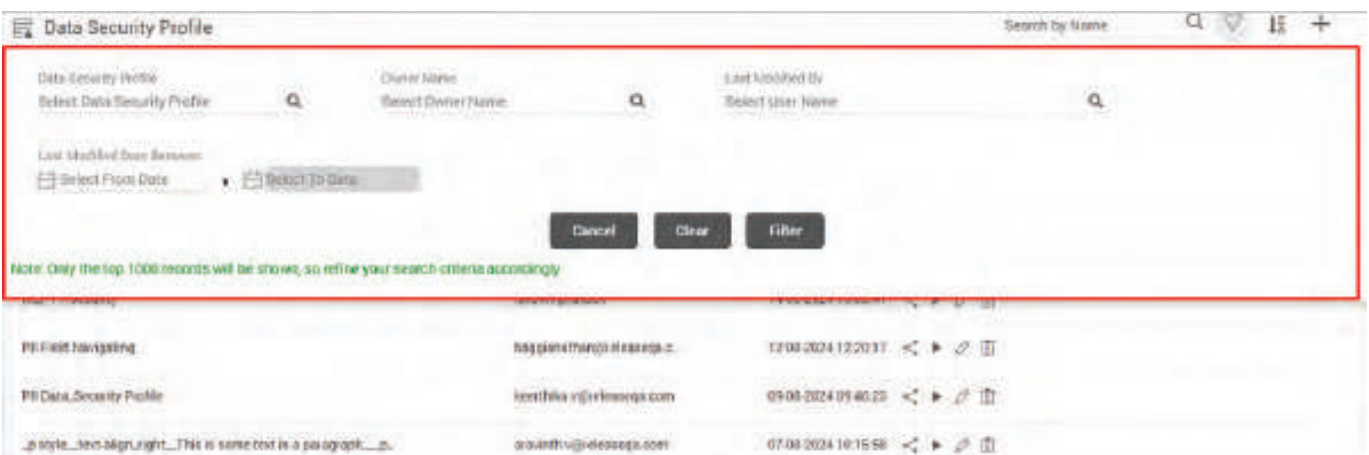




- **Data Loss Prevention (DLP):**

  Deploy DLP policies to monitor, detect, and prevent potential data breaches. Provide ongoing training to users on best practices for data protection and establish mechanisms to identify and mitigate risks proactively.

# Key Reasons to Choose ChainSys for Data Security

- **Proven Success in Data Security:**

  ChainSys has safeguarded over **1 billion** records across 1,000+ enterprise projects globally, showcasing its robust and reliable data security measures.

- **Advanced Security Protocols:**

  With **256-bit encryption**, multi-factor authentication, and real-time monitoring, ChainSys ensures that sensitive data remains secure, preventing unauthorized access and data breaches.

- **Compliance with Global Standards:**

  ChainSys solutions are designed to comply with major global security standards, including **GDPR, HIPAA, and ISO/IEC 27001**, ensuring that your data security practices meet international regulations.

- **Client Trust and Retention:**

  ChainSys enjoys a **98% client retention rate** in its data security services, highlighting the trust clients place in its ability to protect their critical data assets.

- **Scalability and Flexibility:**

  ChainSys security solutions are built to scale with your organization, effectively managing and securing **data environments** of any size, from small businesses to large enterprises.

## Real Life Use Cases with Scenario

| | |
|---|---|
| Scenario | The client, an Ohio-based global provider of data center equipment and services, needed to address GDPR compliance across its enterprise systems. With a workforce of 20,000 employees and operations in 25 manufacturing and assembly facilities worldwide, the organization had over 3,500 applications and databases in scope for this project. The objective was to identify, assess, and secure PII (Personally Identifiable Information) across domains such as HRIS, PLM, Field Services, and Sales. |
| Use Case | The client needed a rapid and comprehensive PII data assessment to mitigate risks, avoid penalties, and improve data governance. |
| ChainSys Solution | <ul><li>Scanned 5,000+ databases to identify 90+ PII data elements, confirmed by the business, in just 6 weeks.</li><li>Simplified scanning by accommodating various file formats and column orders, removing the need for uniform spreadsheets.</li><li>Integrated Power BI to provide executive dashboards for quick insights into PII data across systems.</li></ul> |
| Benefits | <ul><li>Identified and mitigated gaps, shutting down over 50 unused databases to reduce maintenance costs.</li><li>Dashboards and reports provided clear insights into PII data, enabling better decision-making.</li><li>Enabled ongoing PII monitoring and remediation through robust data governance policies.</li></ul> |

# 3. ChainSys Deployement Options

ChainSys offers multiple deployment options for its Smart Data Platform and related solutions, ensuring flexibility to meet various business needs and IT landscapes. Here are the key deployment options:

| Deployment Option | Explanation | Smart Data Platform Solution |
|---|---|---|
| On-Premises | Installed within the company's data center, providing complete control over infrastructure and security. | ▪ Full control over data and security<br>▪ Meets strict regulatory and compliance needs<br>▪ No dependency on internet connectivity |
| Cloud | Hosted on public, private, or hybrid cloud environments like AWS, Azure, Google Cloud, or Oracle Cloud. | ▪ High scalability and flexibility<br>▪ Reduced IT maintenance and infrastructure costs<br>▪ Seamless global accessibility |
| Hybrid | A mix of on-premises and cloud deployments to balance performance, security, and flexibility. | ▪ Supports gradual cloud adoption<br>▪ Ensures business continuity with redundancy<br>▪ Enables seamless data integration |
| SaaS (Software-as-a-Service) | Fully managed, subscription-based model with automatic updates and cloud hosting. | ▪ Quick deployment with minimal IT overhead<br>▪ Cost-effective pay-as-you-go model<br>▪ Automatic updates and security patches |

# 4. ChainSys Flexible Pricing Modles

ChainSys offers flexible pricing models designed to accommodate a wide range of business needs and budgets. Whether you're a small enterprise or a large corporation, our pricing structures are tailored to provide cost-effective solutions without compromising on quality or performance. With options for subscription-based, usage-based, and enterprise licenses, ChainSys ensures that businesses can scale their data management solutions efficiently while aligning with their financial goals. This flexibility empowers organizations to choose the pricing model that best suits their operational and strategic objectives. Here are the key Pricing options:

## 4.1 Volume-Based Pricing

| Explanation | Benefits |
|---|---|
| ▪ This pricing model allows customers to leverage the full range of ChainSys services as they scale their operations.<br>▪ As businesses grow, they can unlock additional use cases without worrying about major cost spikes. | ▪ **Scalability:** Pay based on usage, making it easier to expand without significant upfront investment.<br>▪ **Cost Efficiency:** The more you use, the more cost-effective the services become.<br>▪ **Business Growth Support:** Helps enterprises gradually integrate more ChainSys solutions as their needs evolve. |

## 4.2 Pay for What You Need

| Explanation | Benefits |
|---|---|
| - This model ensures that organizations only pay for the services they actively use.<br>- It offers flexibility to switch or scale services as needed while tracking usage for better financial management (FinOps). | - **No Wasteful Spending:** Avoid paying for unused features or services.<br>- **Flexibility:** Easily swap services based on evolving business requirements.<br>- **Maximized ROI:** Monitor and optimize expenses to get the best value for investment. |

## 4.3 AI-Assisted Optimization

| Explanation | Benefits |
|---|---|
| - ChainSys' AI engine helps businesses optimize costs while enhancing performance.<br>- The AI system ensures efficient resource utilization, particularly for hyperscalers and large ecosystems. | - **Automated Cost Management:** AI dynamically adjusts resources to prevent overspending.<br>- **Optimized Performance:** Ensures high efficiency in data processing, integration and management.<br>- **Ideal for Large Enterprises:** Designed for complex IT environments that require smart resource allocation. |

## 4.4  Lower Total Cost of Ownership (TCO)

| Explanation | Benefits |
|---|---|
| - This pricing strategy reduces overall operational costs by consolidating multiple services on one platform.<br>- It minimizes expenses related to training, maintenance, and procurement. | - **Reduced Training Costs:** Employees only need to learn one platform instead of multiple tools.<br>- **Lower Maintenance Expenses:** Centralized management reduces system maintenance efforts.<br>- **Procurement Savings:** Designed for complex IT environments that require smart resource allocation. |

# 5. ChainSys Support & Maintenance

ChainSys provides comprehensive support and maintenance services to ensure the continuous, smooth operation of your Smart Data Platform and related solutions. With flexible support plans tailored to your specific needs, ChainSys ensures that your systems remain up-to-date, secure, and optimized, allowing you to focus on driving business value while we take care of the technical details. Here are the Support & Maintenance Options:

## 5.1 Implementation Support & Maintenance

1. **Pre-Implementation Setup**

   - **Requirements Gathering:**
     Our team works closely with your organization to understand your needs, expectations, and goals for the project.

   - **Solution Design & Configuration:**
     Tailored configurations are made to suit the specific requirements of your business processes.

   - **Testing & Validation:**
     Rigorous testing protocols ensure that all systems are aligned and meet quality standards.

   - **Training & Knowledge Transfer:**
     We provide hands-on training and knowledge transfer to ensure your team is fully equipped to use the system from day one.

2. **Go-Live Support**

   - **Deployment Assistance:**
     We provide expert support during the go-live phase to ensure a smooth transition with minimal disruptions to your operations.

   - **Real-Time Issue Resolution:**
     Our team offers live support during the critical early days of implementation, addressing any issues that may arise promptly.

   - **Performance Tuning:**
     Post-deployment fine-tuning is done to ensure optimal system performance.

## 5.2 Post-Implementation Support & Maintenance

1. **Ongoing System Monitoring**

   - **Proactive Monitoring:**
     We continuously monitor system performance, identifying potential issues before they impact operations.

   - **System Health Checks:**
     Regular checks ensure the system is functioning optimally, with updates and patches applied as needed.

2. **Issue Resolution & Troubleshooting**

- **Helpdesk Support:**

  Our 24/7 helpdesk provides support to resolve any operational issues or challenges that arise.

- **Escalation Procedures:**

  In the event of a critical issue, escalation paths are predefined to ensure prompt resolution.

3. **Upgrades & Enhancements**

- **Software Updates:**

  ChainSys provides regular updates and enhancements to your system, ensuring it stays up-to-date with the latest features and security patches.

- **Custom Enhancements:**

  We offer tailored solutions based on evolving business needs, helping you take full advantage of new features.

4. **Training & Knowledge Sharing**

- **Ongoing Training:**

  We provide refresher courses and advanced training for your team to keep them updated with the latest system capabilities and best practices.

- **Documentation:**

  Comprehensive documentation is provided for ongoing reference, ensuring smooth operations and better user adoption.

5. **Data Security & Backup**

- **Data Backup & Recovery:**

  Regular backups are performed to safeguard data, ensuring quick recovery in the event of a disaster.

- **Security Audits:**

  ChainSys performs periodic security audits to identify vulnerabilities and ensure that your systems meet compliance and security standards.

6. **Change Management**

- **Adapt to Changes:**

  Our team helps implement changes in processes or business logic post-implementation to ensure the system adapts to evolving needs.

- **Continuous Improvement:**

  ChainSys's approach includes ongoing improvements based on feedback and analytics to enhance the system's performance and user experience.

## 6. Take the Next Step – Own Your Data. Own Your Future.

Data isn't just an asset—it's the backbone of your business. But without the right strategy, it becomes a liability.

- Is your data fueling innovation or slowing you down?
- Are you making data-driven decisions with confidence?
- Can you trust your data to power AI, analytics, and automation?

**If the answer isn't a resounding YES, it's time to act. Now.**

- Turn your data into a strategic advantage.
- Eliminate silos, inconsistencies, and inefficiencies.
- Empower your teams with trusted, high-quality data.
- Drive agility, compliance, and AI-driven insights.

**Don't wait. Start your Enterprise Data Management transformation now.**

**Schedule Demo**

**The Future of Data is Here!**

## ChainSys Unveild

| Places | People | Process | Projects | Partnerships |
|---|---|---|---|---|
| **Global Headquartes** Lansing, Mi.  Est: 1998 | 1500+ Proffessionals Worldwide | Hub & Spoke Architecture | 50+ Ongoing Engagements | ORACLE  SAP  SYBASE |
| **Global Development** Chennai and Madurai India. Est: 2000 | 600+ Data Engineering (Development, QA, DevOps, Security & Support) Team | Data Management Accelerators with 10000+ templates | Completed 500+ Data Management Projects Worldwide | snowflake  Microsoft salesforce  dun & bradstreet |
| **Major Global Offices** Rockin, California Toronto,Canada, Utsecht, NL, Dubai, UAE, Singapore | 400+ Data Experts Worldwide  300+ Enterprise Applications Experts Worldwide | CMMIDEV /3  CMMISVC /3  AICPA SOC   ISO ISO/IEC 27001:2013 Certified ChainSys | We offer value added services on our products for our customers:  1. Advisory 2. Architecture 3. Implementation 4. Training 5. Support | **Technology** cloudera CONNECT  mongoDB  java  android |

# Our Differentiators

| 10000+ | 70% | 99.9% | 360⁰ | Low code/No code |
|---|---|---|---|---|
| Smart Data Templates for 200+ Applications | Cost & Time Reduction in Data Ingestion Migration | Data Quality Improvement | Perspective with Automated Governance Protocols | Approach for ease of Development & Rapid Deployment |

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