

# Insights of non-SAP to SAP Data Migration Challenges

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# Agenda



Key Outcomes and Objectives



Customer Case Studies



non-SAP to SAP Data Migration Challenges



Data Migration Architecture



About Chainsys Corporation



Questions and Answers

# Key Outcomes and Objectives



1

Understanding non-SAP to SAP  
Data Migration Use cases

2

Understanding the Data Migration  
Challenges

3

Understanding Data Migration  
Architecture

4

Understanding the data migration  
solutions – how we helped our  
customers

# Case Study 1 – Acquisition – Oracle EBS to SAP

The largest Industrial Manufacturing company in Europe produces Transformers, generators, gas turbines, steam turbines and compressors, etc.



American engineering and manufacturing company designs, manufactures, and services equipment used in the energy infrastructure like Oil and gas

## 55+ Migration objects :

- Finance and controlling
- Materials Management
- Production Planning
- Plant Maintenance
- Quality Management
- Sales and Distribution
- Project Systems

A leading pharmaceutical company  
(Scientific instrumentation, reagents and  
consumables, and software services)

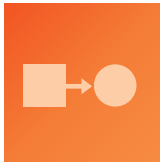
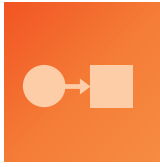
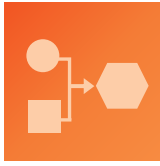
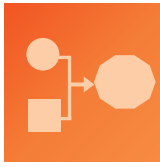
divested

Cancer diagnostics company

## 46+ Migration objects :

- Finance and controlling
- Materials Management
- Production Planning
- Quality Management
- Sales & Distribution
- Extended Warehouse Management

# non-SAP to SAP Migrations

-  Transforming Square peg into Round
-  Transforming Round hole to Square
-  Transforming Both to a Hexagon
-  Transforming both to a polygon (Octa, Deca) with more sides

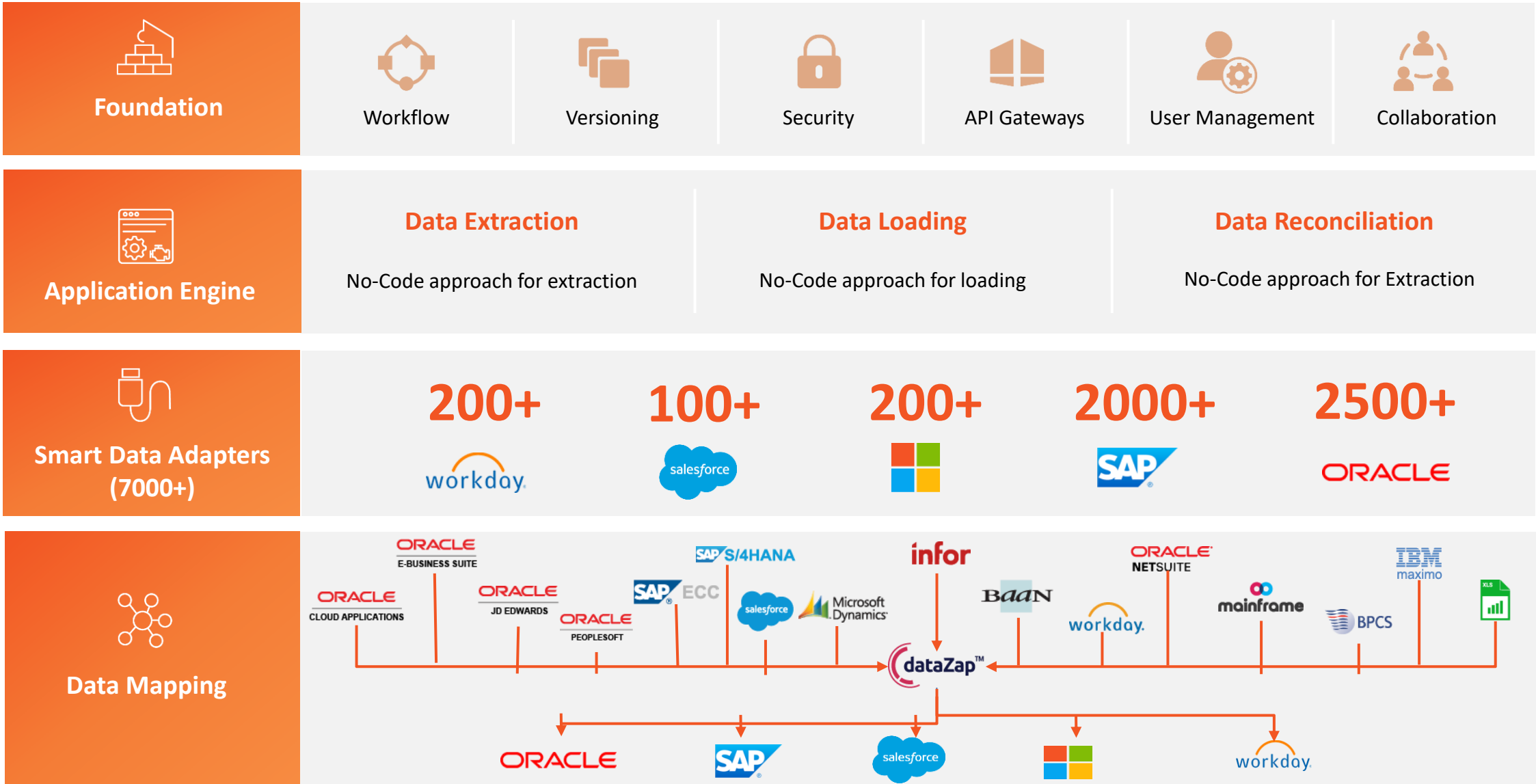
**Acceleration with Physical/Logical mapping and Pre-built Extract and Load Adaptors**



# Common Data Migration Challenges

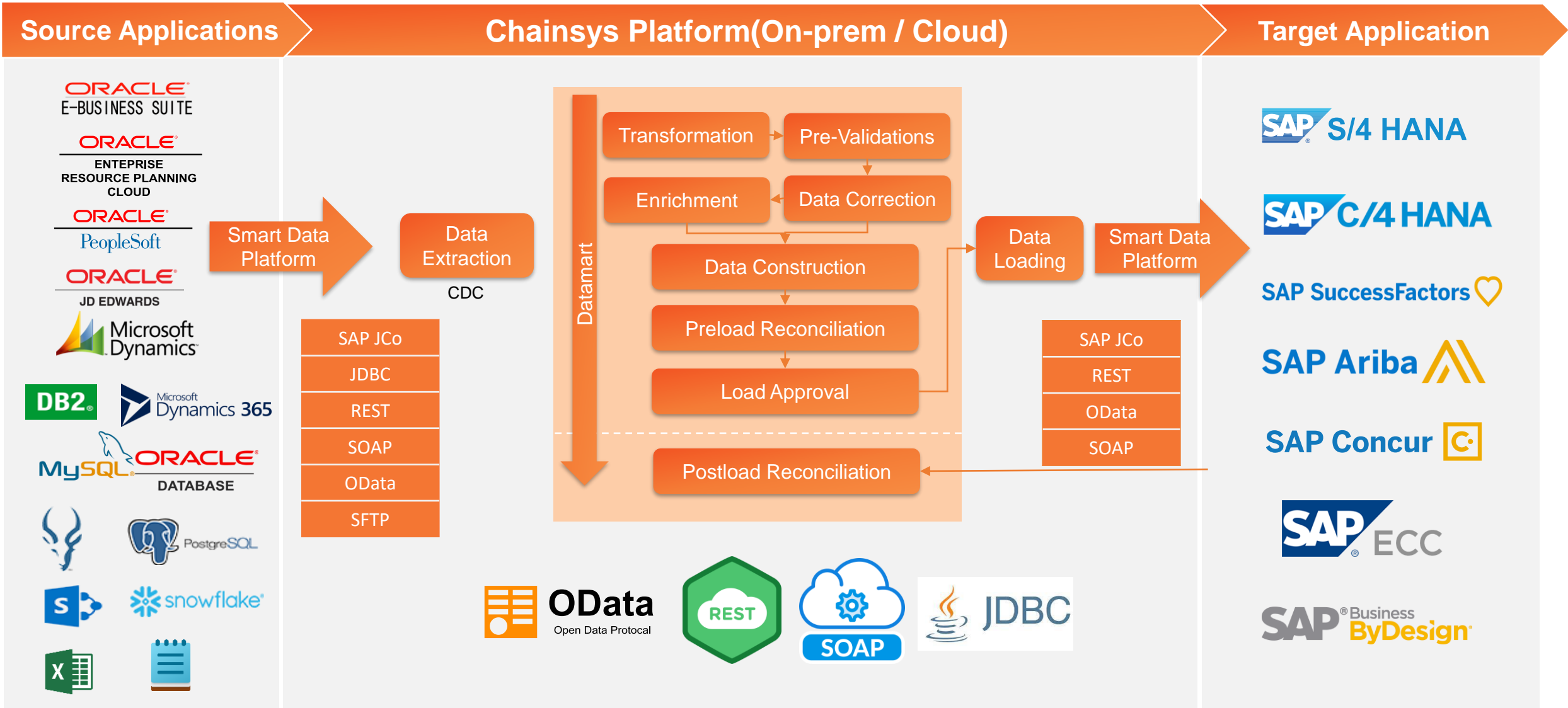
Mapping Challenges	Extraction Challenges	Transformation Challenges	Loading Challenges	Validation Challenges									
<ul style="list-style-type: none"> <li>▪ Business Process Mapping (PTP,OTC, RTR, MTS, MTO, etc. )</li> <li>▪ Migration Object mapping (PIR – Approved supplier list, WorkCentre-BOM resources, etc.)</li> <li>▪ Organization structure mapping (Company code- Operating Unit, Plant- Inventory Organization, etc.)</li> <li>▪ Physical and Logical mapping</li> </ul> <table border="1" data-bbox="78 963 555 1096"> <thead> <tr> <th>SAP</th> <th>Oracle EBS</th> <th>JDE</th> </tr> </thead> <tbody> <tr> <td>MARA</td> <td>MTL_SYSTEM_ITEMS_B</td> <td>F4101</td> </tr> <tr> <td>MATNR</td> <td>SEGMENT1</td> <td>IMLITM</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>▪ Data Mapping (Unit of measure, Material Type, Procurement Type, MRP type, etc.)</li> </ul>	SAP	Oracle EBS	JDE	MARA	MTL_SYSTEM_ITEMS_B	F4101	MATNR	SEGMENT1	IMLITM	<ul style="list-style-type: none"> <li>▪ Huge data Volume(20+ years old)</li> <li>▪ Extract programs</li> <li>▪ Long text(Material master, transaction lines, etc. )</li> <li>▪ Attachments(Sales Orders, Purchase Orders, etc.)</li> <li>▪ Delta extraction(CDC enabled)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Length Constraints (Work center, Production Order, Material description, etc.)</li> <li>▪ Unit of measure consolidation (Base unit, Issue unit, weight unit, etc.)</li> <li>▪ Inventory organization based values consolidation (Material type, Base Unit, etc.)</li> <li>▪ Special characters and spaces( Material number, Production Order, etc.)</li> <li>▪ Posting Accounting and Material Documents - Lines limitations</li> <li>▪ Business Partner (CVI)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Huge Data Volume(20+ years old)</li> <li>▪ Cut-over window</li> <li>▪ Delta load</li> <li>▪ Error reprocessing</li> </ul>	<ul style="list-style-type: none"> <li>▪ Pre-load and Post-load validation</li> <li>▪ Data Reconciliation</li> <li>▪ Testing - User training</li> </ul>
SAP	Oracle EBS	JDE											
MARA	MTL_SYSTEM_ITEMS_B	F4101											
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# Solutions and offerings





# Data Migration Architecture



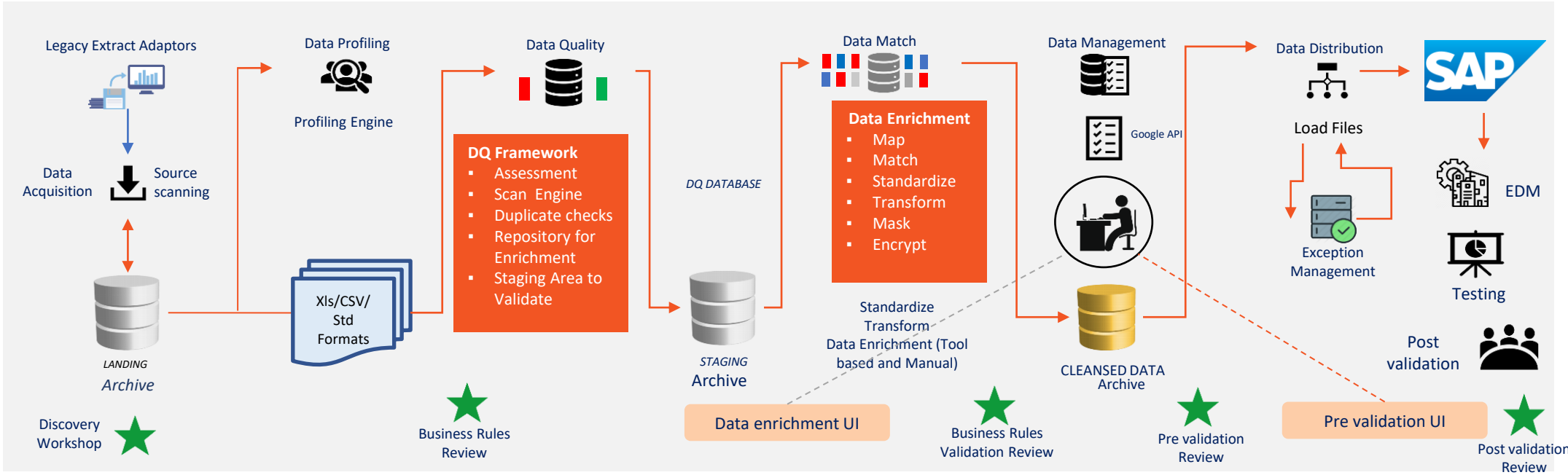
# Chainsys Platform - Endpoint Connectors

Databases - RDBMS	Enterprise Applications	Cloud Applications	Big Data Lake	Enterprise Storage System
PostgreSQL ORACLE DATABASE Microsoft SQL Server DB2	ORACLE E-BUSINESS SUITE SAP ECC ORACLE JD EDWARDS SAP S/4HANA ORACLE PEOPLE SOFT ORACLE AGILE PLM	ORACLE Oracle ERP Cloud ORACLE NetSuite workday. PROCORE salesforce CONCUR ORACLE CPQ Cloud ORACLE SALES CLOUD	HIVE Google Big Query Azure Data Lake APACHE HBASE	OneDrive OneDrive box Google Drive Amazon S3 FTP
	ORACLE PRIMAVERA UNIFIER Microsoft Dynamics	Microsoft Dynamics 365 SAP C/4 HANA SAP Business ByDesign	<h3>NoSQL Databases</h3>	ORACLE WEBCENTER
SYBASE SAP HANA MySQL Amazon Aurora	ORACLE PRIMAVERA P6 IBM MAXIMO e-chain	ORACLE MARKETING CLOUD ORACLE CRM ON DEMAND dun & bradstreet servicenow. SAP SuccessFactors Google APIs Planview Enterprise One	mongoDB Solr Apache CouchDB relax	<h3>Message Broker</h3> IBM MQ Apache ACTIVEMQ

# Data Migration with data quality



- Source Applications
  - Oracle Cloud
  - Oracle EBS
  - Peoplesoft
  - SAP
  - JD Edwards
- CSV/Excel & Standard Flat files
- Other ERP and Enterprise Systems



### Smart Values

- No coding Platform. Easily Configure.
- Single platform for Setup/Data Migration, Governance, Enrichment & Archiving
- Pre-load and post-load validation via UI
- Reconciliation Dash-Boards & Reports**
- Reduced cutover time
- Save 30-40% of time and cost

### Smart Features

- GDPR, Sox Audit and Compliant.
- Oracle and SAP Certified Platform.**
- Role Based Access for Data Security
- Both On-Premise and On-Cloud
- Collaborative Platform
- Autonomous Cut Over
- Robust data quality algorithms**

### Business Reconciliation Dash-Boards & Reports

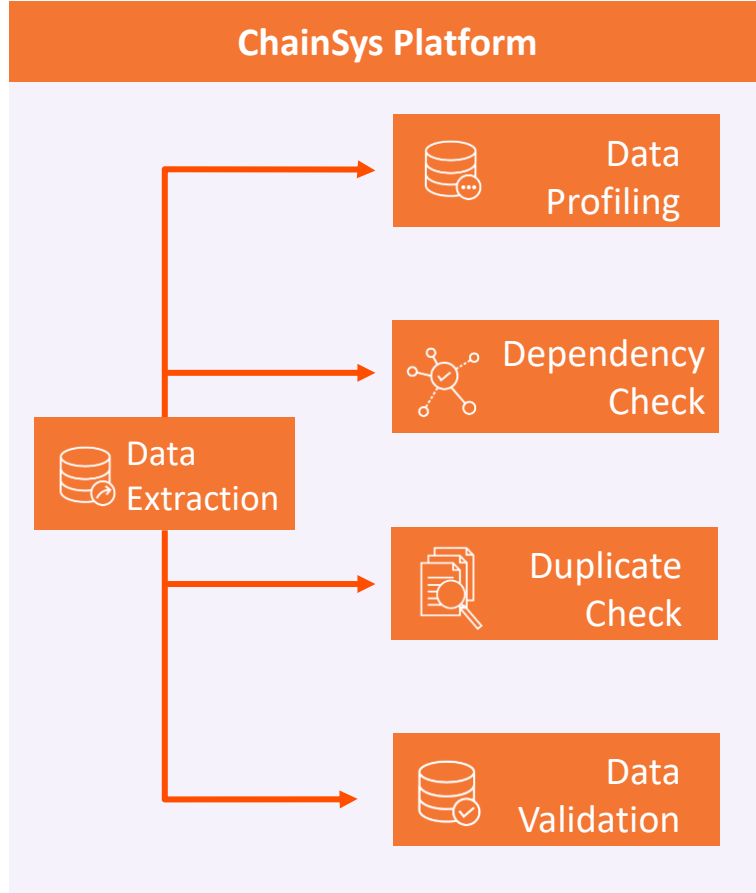
### Smart Features

# How we helped our Customers to save Time and Cost

Data Assessment & Profiling	Cleanse, Match & Merge	Extract	Pre-validate	Map & Transform	Pre-Load Reconciliation	Post-Load Reconciliation
<ul style="list-style-type: none"> <li>Potential data quality issues</li> <li>Data structure and interrelationships</li> <li>Potential duplicates</li> </ul>	<ul style="list-style-type: none"> <li>Eliminate duplicates</li> <li>Identify close matches</li> <li>Correct data errors for incomplete, obsolete data</li> </ul>	<ul style="list-style-type: none"> <li>Prebuilt extract adaptors</li> <li>Structured or unstructured data</li> <li>Schedulable</li> </ul>	<ul style="list-style-type: none"> <li>Data/application validations</li> <li>Business/Custom Validations</li> <li>Online/offline error corrections</li> <li>Bulk error corrections</li> </ul>	<ul style="list-style-type: none"> <li>Physical Mapping</li> <li>Logical Mapping</li> <li>Cross reference capability</li> </ul>	<ul style="list-style-type: none"> <li>Compare Source data with transformed data in dataZap 'Data Mart'</li> <li>Spot discrepancies early</li> </ul>	<ul style="list-style-type: none"> <li>Compare transformed data with Target data</li> <li>Post-load recon dashboards</li> <li>Discrepancies are highlighted</li> </ul>
<b>Percentage of Time Saved using the ChainSys Smart Data Platform</b>						
<b>20-25%</b>	<b>30-35%</b>	<b>25-30%</b>	<b>30-35%</b>	<b>30-35%</b>	<b>30-35%</b>	<b>30-35%</b>

# Data Assessment for S/4 HANA Readiness

### Application End Points



## Data Profiling

- Identifies the source data structure and interrelationships
- Determines the Consistency and Completeness of the source data
- Identifies Potential data Quality Issues

## Functional Dependency Check

- Identifies all the Open transactions and available valid downstream objects.

## Duplicate Check

- Identifies the Intended and Unintended duplicate records for a given criteria(A group columns) based on Accurate and Approximate rule sets using automated match algorithms

## Data Validation

- Validates the source data against a target environment or standard business rules

# About ChainSys



Global Headquarters  
in Lansing, MI  
Est: 1998

900+ Professionals  
Worldwide

Hub & Spoke  
Architecture

50+ Support  
Engagements

Manage Your Data



350+ Customers  
Worldwide

PLACE



PEOPLE



PROCESS



PROJECTS



PRODUCTS



PARTNERSHIP



APAC headquarters  
in Chennai, India  
Est: 2001

400+ Data Experts  
Worldwide

Data Management  
Accelerators with  
7000+ Templates

500+ Data  
Management  
Projects Worldwide

Manage Your Business



Referral  
Customers

## Partnership & Certifications



## Technology



Foundation

Smart Data Platform

Smart Business Platform

- Security**
- Authentication / Authorization / Crypto
- User Management**
- User / Groups
  - Roles / Responsibility
  - Access Manager
- Base Component**
- Workflow
  - Versioning
  - Notification
  - Logging
  - Scheduler
  - Object Manager
- Gateway Component**
- API Gateway

dataZap

Data Migration  
Data Reconciliation  
Data Integration

- Data Migration
- Setup Migration
- Test data Prep
- Big Data Ingestion
- Data Archival
- Data Reconciliation
- Data Integration
- Mass Data Loading

dataZen

Data Quality Management  
Data Governance  
Analytical MDM

- Data Quality Management
- Master Data Governance
- Analytical MDM (Customer 360, Supplier 360, Product 360)

dataZense

Data Analytics  
Data Catalog  
Data Security & Compliance

- Data Masking
- Data Compliance (PII, GDPR, CCPA, OIOO)
- Data Cataloging
- Data Analytics
- Data Visualization

Smart BOTS™

Smart BOTS is a BPA (Business process automation) and QA automation tool for any application.

- Used for Autonomous Regression Testing
- Used for Load and Performance Testing

Smart App Builder™

SmartChainSys PaaS makes Application Development Simplified and Affordable.  
Low / No Code Automation Platform for creating any application.

- Rapid Application Development (RAD) Framework
- Visual Development Approach
- Drag and Drop Design Tools
- Functional Components into Visual Workflow
- appAUGMENTER



- **50+ ERP and Enterprise Applications supported**
- **Ready to use mappings available to seamlessly map data between various Applications**
- **Pre-configured extraction & load adaptors available**
- Flexible connection methods supported
- No or low coding required
- Built-in transformation capability
- **Ready to use pre-validations**
- **Pre-configured reconciliation reports and dashboards**
- Single sign on capability
- Access control and User Management
- Business User Friendly
- ChainSys lineage of 23+ years of Product Innovation
- 24x7 Support via ChainSys Support Portal



# Questions?

For questions after this session, contact us at [priyar.sundaramoorthy@chainsys.com](mailto:priyar.sundaramoorthy@chainsys.com) and [webdemorequest@chainsys.com](mailto:webdemorequest@chainsys.com)

Please visit our website for more details  
<https://www.chainsys.com/>

# Thank you.

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