Mastering Data Migration to S/4HANA

Unpacking challenges and lessons from SAP ECC and Non-SAP Transitions

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Agenda

1	**S/4 HANA Digital Transformation - Introduction**
2	**Case Studies**
3	**Challenges in S/4 HANA Data migration**
4	**Our data management expertise**
5	**Questions**

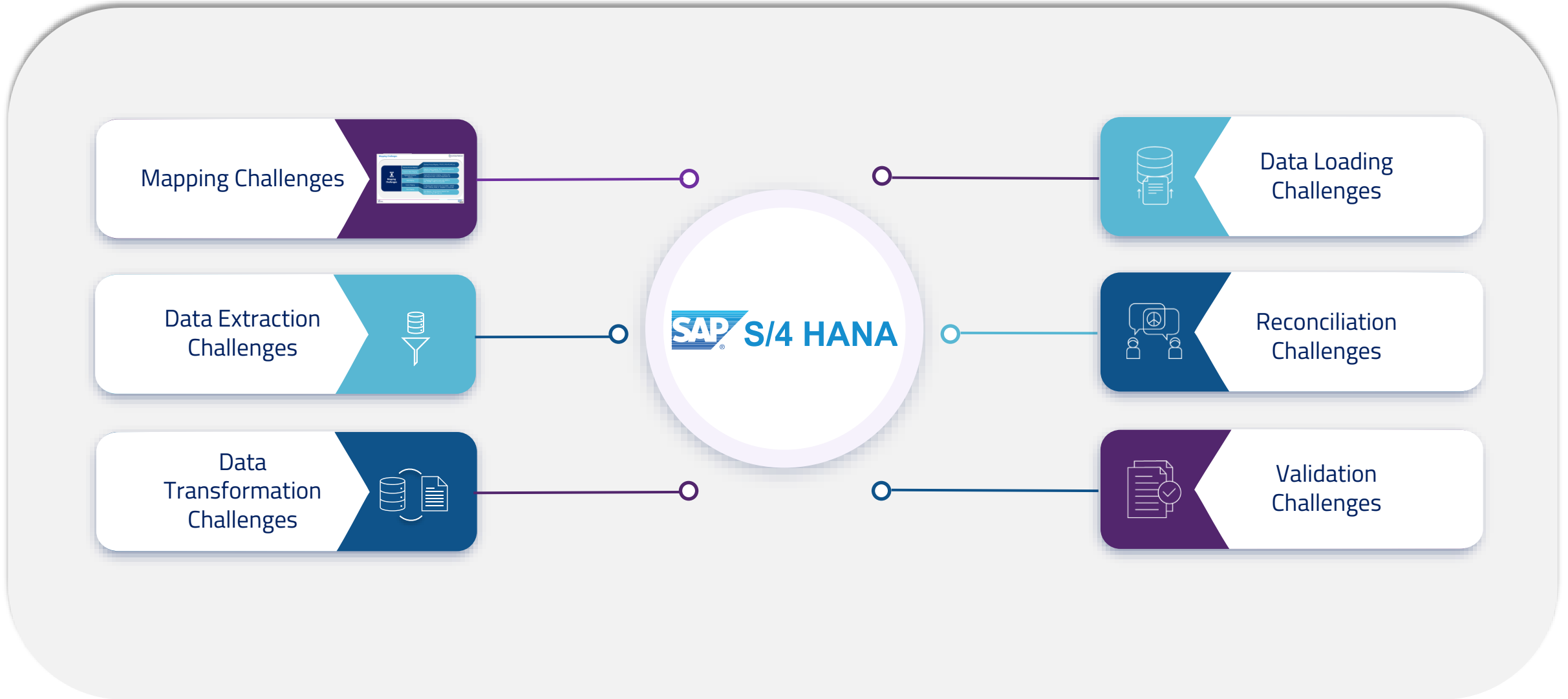# S/4 HANA Digital Transformation - Introduction

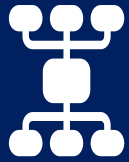### Are you ready for S/4 HANA Data migration?

- Identifying and understanding the source applications

- Identifying the business process and objects

- Understanding the data volume

- Understanding the data quality

- Understanding the customizations

What are the key factors to be considered before moving to S/4 HANA?

- SAP S/4 HANA Cloud (Private/public) vs on-premise

- Implementation strategy (Greenfield, Brownfield, Hybrid)

- Business process optimization

- Maintaining clean data

- Moving customizations

Case Studies

Endpoints and the Customer industry	One of the leading food production companies headquartered in the United Arab Emirates	A US-based company specializing in precision diagnostics for cancer on a global scale	One of the top automobile manufacturers headquartered in India	One of the leading automobile manufacturers with its headquarters in Japan
Source Applications	ORACLE E-BUSINESS SUITE Microsoft Dynamics	ORACLE E-BUSINESS SUITE	SAP ECC ORACLE JD EDWARDS MAPICS, BPCS, AS 400	SAP ECC Quality Information System(QIS)
ChainSys Smart data platform Components	dataZap™ dataZen™ dataZense™	dataZap™ dataZense™	dataZap™ dataZen™ dataZense™	dataZap™ dataZense™
Target applications	SAP S/4 HANA	SAP S/4 HANA	SAP S/4 HANA	SAP S/4 HANA

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Mapping Challenges

Smart Data Platform™

Mapping Challanges

- Business Process Mapping
- Business Object Mapping
- Organization Structure Mapping
- Table Mapping
- Column Mapping
- Value Mapping

Business Process Mapping - PTP,OTC, RTR, MTS, MTO, etc.

Migration Object mapping - PIR – Approved supplier list, WorkCentre - BOM resources, etc.

Organization structure mapping - Company code- Operating Unit, Plant- Inventory Organization, etc.

Ex: Mapping SAP material master table MARA to MTL_SYSTEM_ITEMS_B in Oracle EBS

Ex: Mapping SAP material number from MARA – MATNR to MTL_SYSTEM_ITEMS_B – SEGMENT1 in Oracle EBS

Data Mapping - Unit of measure, Material Type, Procurement Type, MRP type, etc.

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Best Practices for a Successful Migration

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Choosing the right partners and tools

Understand your Data

Planning and preparation

Data Quality, Cleansing, Transformation and Pre-validations

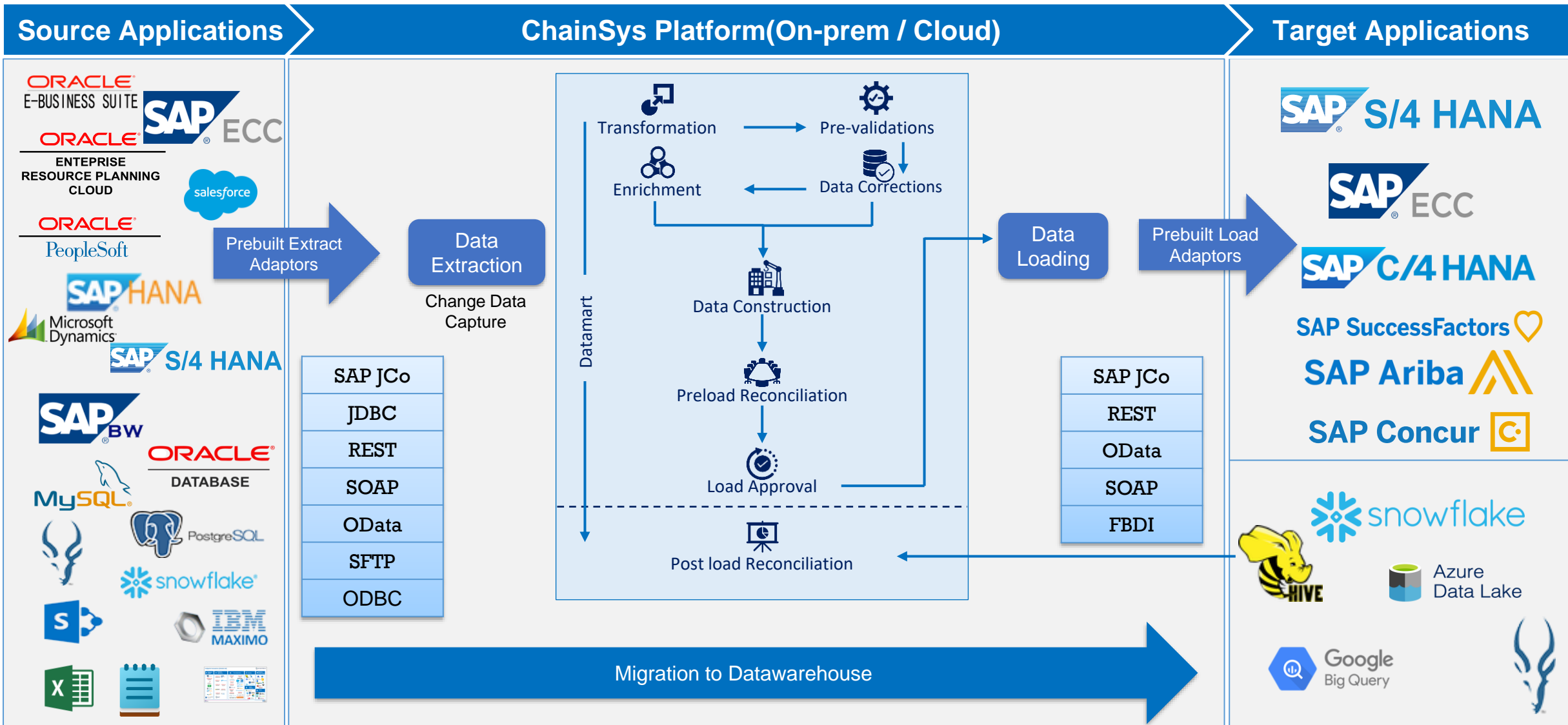Reconciliations, Validations and Testing

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How we helped our Customers to save Time and Cost

Data Assessment & Profiling	Extract	Cleanse, Match & Merge	Pre-validate	Map & Transform	Pre-Load Reconciliation	Post-Load Reconciliation
• Potential data quality issues • Data structure and interrelationships • Potential duplicates	• Prebuilt extract adaptors • Structured or unstructured data • Schedulable	• Eliminate duplicates • Identify close matches • Correct data errors for incomplete, obsolete data	• Data/application validations • Business/Custom Validations • Online/offline error corrections • Bulk error corrections	• Physical Mapping • Logical Mapping • Cross reference capability	• Compare Source data with transformed data in dataZap 'Data Mart' • Spot discrepancies early	• Compare transformed data with Target data • Post-load recon dashboards • Discrepancies are highlighted

Percentage of Time Saved using the ChainSys Smart Data Platform

20-25%	25-30%	30-35%	30-35%	30-35%	30-35%	30-35%

Data Migration/Integration Approach

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Source Applications	ChainSys Platform(On-prem / Cloud)	Target Applications

Source Applications

- ORACLE E-BUSINESS SUITE
- SAP ECC
- ORACLE ENTERPRISE RESOURCE PLANNING CLOUD
- salesforce
- ORACLE PeopleSoft
- SAP HANA
- Microsoft Dynamics
- SAP S/4 HANA
- SAP BW
- ORACLE DATABASE
- MySQL
- PostgreSQL
- snowflake
- IBM MAXIMO

Prebuilt Extract Adaptors

Data Extraction
Change Data Capture

SAP JCo
JDBC
REST
SOAP
OData
SFTP
ODBC

ChainSys Platform

Transformation → Pre-validations

Enrichment ← Data Corientions

Data Corrections

Datamart

Data Construction

Preload Reconciliation

Load Approval

Post load Reconciliation

Data Loading

Prebuilt Load Adaptors

SAP JCo
REST
OData
SOAP
FBDI

Target Applications

- SAP S/4 HANA
- SAP ECC
- SAP C/4 HANA
- SAP SuccessFactors
- SAP Ariba
- SAP Concur
- snowflake
- HIVE
- Azure Data Lake
- Google Big Query

Migration to Datawarehouse

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Smart Data Management – Applications and Components

Smart Data Platform™

Foundation

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

Smart Data Platform

dataZap
Data Migration
Data Reconciliation
Data Integration

dataZen
Data Quality Management
Data Governance
Analytical MDM

dataZense
Data Analytics
Data Catalog
Data Security & Compliance

Smart Business Platform

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

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

- Data Migration
- Setup Migration
- Big Data Ingestion
- Data Archival
- Data Reconciliation
- Data Integration
- Mass Data Loading

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

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

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

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

Endpoint Connectors (Partial List)

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Databases - RDBMS

- PostgreSQL
- ORACLE DATABASE
- Microsoft SQL Server
- DB2
- SYBASE
- SAP HANA
- MySQL
- Amazon Aurora PostgreSQL

Enterprise Applications

- ORACLE E-BUSINESS SUITE
- SAP ECC
- ORACLE JD EDWARDS
- SAP S/4HANA
- ORACLE PEOPLESOFT
- ORACLE AGILE PLM
- Microsoft Dynamics
- ORACLE PRIMAVERA UNIFIER
- ORACLE PRIMAVERA P6
- IBM MAXIMO
- eChain™

Cloud Applications

- ORACLE Oracle ERP Cloud
- ORACLE NETSUITE
- workday.
- PROCORE
- ORACLE CPQ CLOUD
- salesforce
- CONCUR
- ORACLE SALES CLOUD
- SAP S/4HANA
- SAP Ariba
- Microsoft Dynamics 365
- SAP C/4 HANA
- SAP Business ByDesign
- ORACLE MARKETING CLOUD
- SAP SuccessFactors
- ORACLE CRM ON DEMAND
- ORACLE SERVICE CLOUD
- Google APIs
- dun & bradstreet
- servicenow
- 3DS ENOVIA

Big Data

- HIVE
- Dedicated SQL Pools
- Google Big Query
- amazon REDSHIFT
- snowflake

NoSQL Databases

- mongoDB
- amazon DynamoDB
- Solr
- Apache CouchDB relax

Enterprise Storage System

- OneDrive
- S
- Azure Data Lake
- box
- hadoop HDFS
- amazon S3
- FTP
- ORACLE WEBCENTER

Others

- IBM MQ
- APACHE kafka
- OPENTSDB
- Apache ACTIVEMQ

Data Migration Demo Scenario

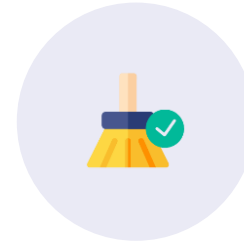**Smart Data Platform™**

Data Acquisition

- Prebuilt Extract adaptors
- CDC Enabled
- Oracle E-Business Suite

Data Transformations

- Transformations
- Cross References
- Look-ups, defaults

Data Transformations

- Pre-Validations
- Business validations
- Data Corrections

Preload Reconciliation

- Review the Data
- Compare Source data with transformed data

Source: ORACLE E-BUSINESS SUITE → **Target:** SAP S/4 HANA

Data Transformations

- Data load Approval
- Single, Parallel, Hierarchical

Data Loading

- Loading and Integration using prebuilt load adaptors

Approval

- Reconciliation Reports Compare transformed data with Target data

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Questions ?

Thank you!!

For a personalized demo, contact us at

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www.chainsys.com