iDAMX

Integrated Data for Asset Management Excellence

Build, Validation & Migration

Introduction

HCLTech **iDAMX (Integrated Data for Asset Management Excellence)** cloud-based solutions and services enables clients to build a digital transformation journey requires the consolidation of structured data and assets from various sources into a centralized engineering asset data foundation where the asset data is normalized, enriched and transferring data to next gen digital platform from document centric to data centric by having a single source of truth.

iDAMX Solution supports Information Management, CMMS Operation Readiness, Reliability and inventory Management fostering digital transformation, capital project handover and delivery of comprehensive transformations across asset life cycle. This empowers organizations optimize asset management by operational efficiency, reliability increasing profitability, reducing risk and cost by building more resilient operations

iDAMX solution build by leveraging AI/ML and adopting global asset management standards (CFIHOS/ISO 14224/15926) aligned ERP/ EAM workflow standards, simplify the clients to build structured asset data model using taxonomy and precisely transforms engineering data from various sources into high-quality structured data with integrated standardized workflows.

iDAMX

Information Management
+
Asset Hierarchy
+
Asset Reliability
+
Spare Parts Management

iDAMX

Work Management

CMMS Operation Readiness

Inventory Management

Reliability Strategy

Organizational Readiness

Life Cycle Strategy

Performance Optimization

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Market Key Challenges – Asset Management

1 Operations

- Increased Unplanned downtime
- Increased operational cost
- Reduced operation Efficiency
- Reduced yield

2 Maintenance

- Ad-hoc Maintenance of Assets
- Increasing Failure of ageing assets
- Higher reactive maintenance
- Difficulties in achieving in IT/OT Integration

3 Reliability Improvement

- Implementation of reliability programs
- Delay in embracing the digital
- Maintenance of complex systems
- Reduced awareness of reliability methodologies

4 Enterprise Asset Management

- Inability to meet critical business functionalities
- Integration of data sources and solutions
- Excessive customizations leading to ineffective usage
- High maintenance & support costs

5 Inventory Management

- Inconsistency of Material Master
- Non availability of critical BoM
- High inventory carrying costs
- Difficulties in predicting accurate demands

6 Data Management

- Siloed Operations with Disparate Systems
- Inconsistent Data Quality
- Uncertainty in Analytics implementation costs
- Enterprise-wide view of APM Data not available

iDAMX Integrated Solution

Information Management

- Define Document Matrix structure
- Document collection and classification
- Document naming conventions
- Document Associations
- Meta Data Capture

Operation Readiness

- Build Multi Level Asset Hierarchy
- Functional Location
- Equipment Strategies
- Class & Characteristics
- Catalog Profiles
- Bill of Materials (BoM)
- Global Template base classification

Asset Reliability

- Failure Mode Effect Analysis (FMEA)
- Equipment Criticality (ECA)
- Maintenance Strategies
- Maintenance activity types
- Maintenance Planning & Scheduling
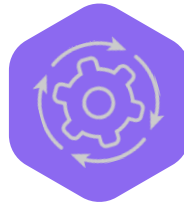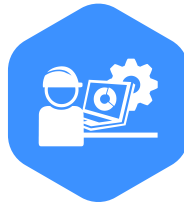- Work Order Management

Spare Parts Management

- Data Strategy - Develop Taxonomy and Noun Modifier
- Cataloguing, Enrichment
- Deduplication, Standardization & Governance
- Critical Spares
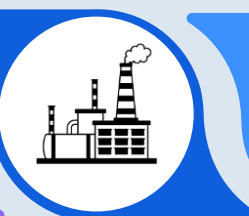- Assigned BoM
- Correct Inventory

Data Migration

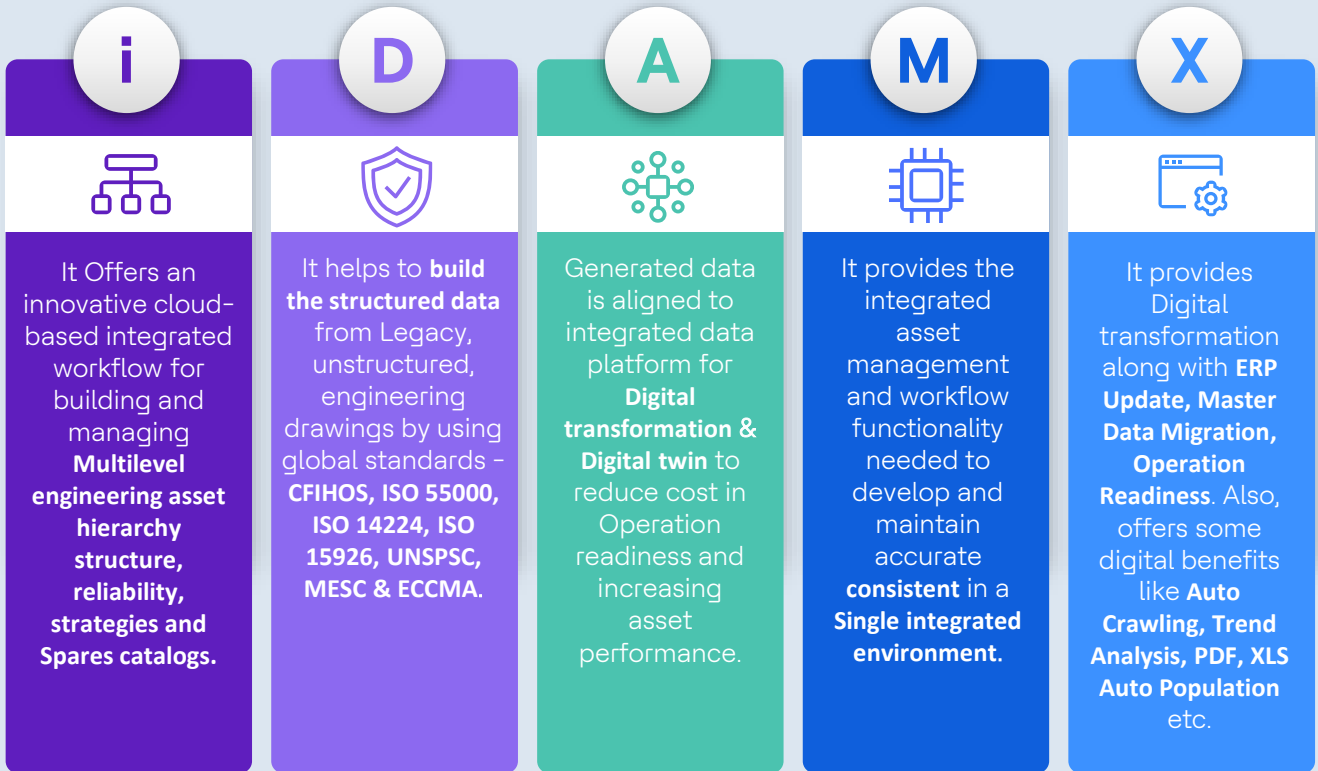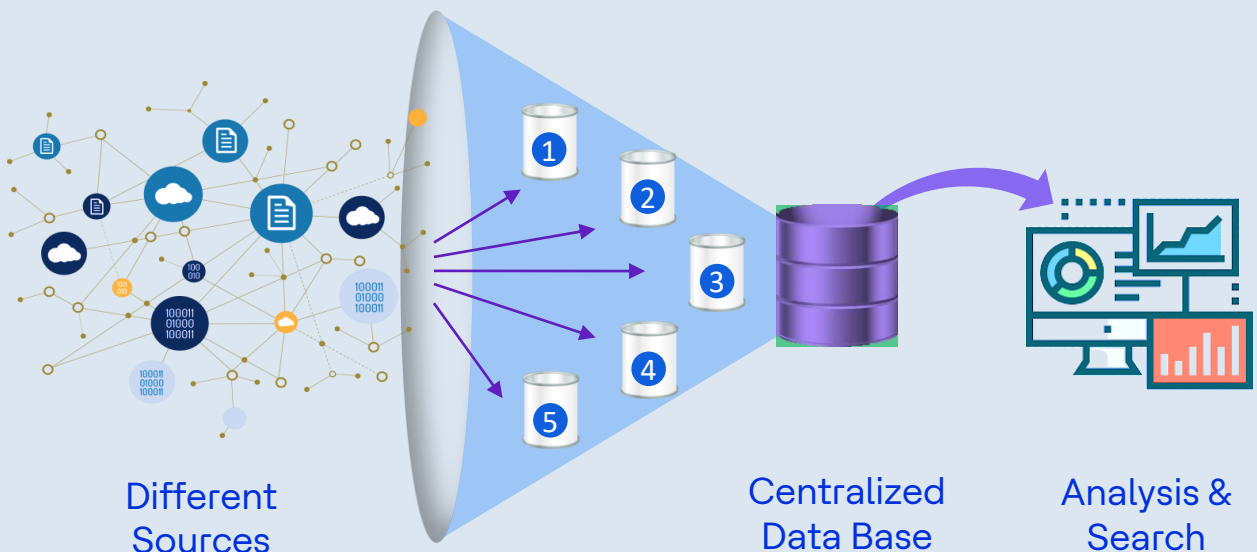- PM/MM Master Data Migration / upgrade
- Master Data inconsistency check
- Cleansing & De-Duplication Check

Industry

Energy   Mining   Chemical   CPG   Product

iDAMX – Centralized Engineering Asset Data Model for Build & Migration

i
It Offers an innovative cloud-based integrated workflow for building and managing **Multilevel engineering asset hierarchy structure, reliability, strategies and Spares catalogs.**

D
It helps to **build the structured data** from Legacy, unstructured, engineering drawings by using global standards – **CFIHOS, ISO 55000, ISO 14224, ISO 15926, UNSPSC, MESC & ECCMA.**

A
Generated data is aligned to integrated data platform for **Digital transformation & Digital twin** to reduce cost in Operation readiness and increasing asset performance.

M
It provides the integrated asset management and workflow functionality needed to develop and maintain accurate **consistent** in a **Single integrated environment.**

X
It provides Digital transformation along with **ERP Update, Master Data Migration, Operation Readiness.** Also, offers some digital benefits like **Auto Crawling, Trend Analysis, PDF, XLS Auto Population** etc.

Harvesting, Enriching and Classifying by Global Standards

Different Sources

Centralized Data Base

Analysis & Search

Cloud based Integrated Asset Management Solution

Document to Asset Data for Build & Migration and Digital Transformation

Build & Tracking of Asset Data Quality – Model /Template

1 Functional Location — Represents the organizational unit or area for maintenance

Inputs Documents MoC's

Client MDDS ++

Standards Taxonomy Templates

2 Equipment at FLOC level

Equipment → Equipment Master → Class

The group that an equipment belongs as per functionality

Repository of standard details pertaining to each equipment

CFIHOS

Characteristics — Define values based on attributes listed

ERP Platform Work Management

3 FMEA Criticality → Maintenance Plans — Data needed to optimally maintain equipment

Criticality of asset based on predefined parameters

4 Task list

5 BOM

Sequence of events to implement maintenance plan defined components for maintaining equipment

Integrated Data for Asset Management Excellence

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CFIHOS | ISO 55000 | ISO 15926 | ISO 15489 | ISO 14224 | UNSPSC | MESC | eClass

Benefits

1 Centralized & Contextualized Data – Digital Transformation

2 Data Governance, Model and Taxonomy

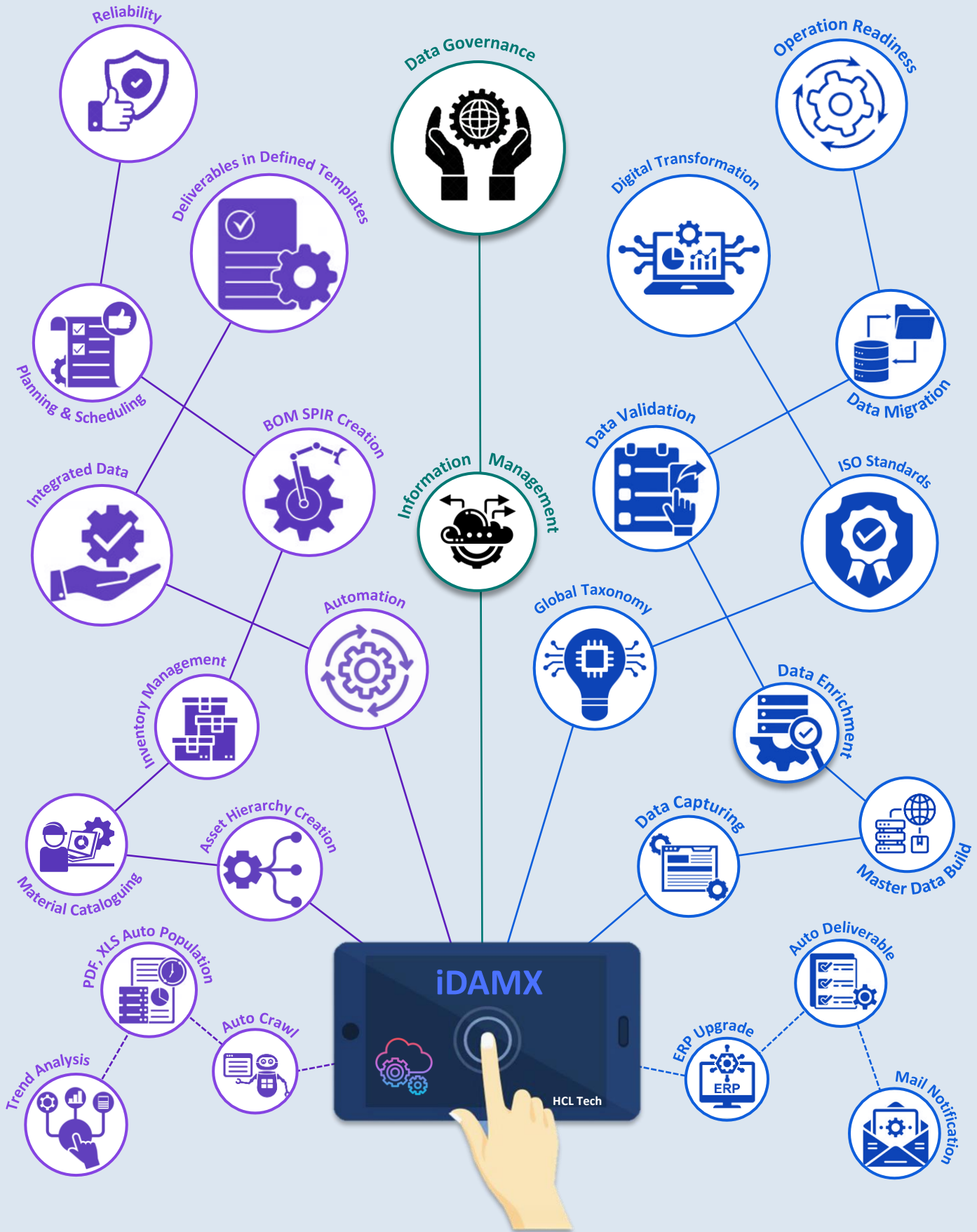**3** ERP / EAM Migration

4 Reduction in Cost – CAPEX IM Handover

5 Increased Asset Utilization

6 Increased Asset Reliability

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iDAMX – Solutions & Benefits

Reliability

Deliverables in Defined Templates

Data Governance

Operation Readiness

Digital Transformation

Data Migration

Planning & Scheduling

BOM SPIR Creation

Information Management

Data Validation

ISO Standards

Integrated Data

Automation

Global Taxonomy

Data Enrichment

Inventory Management

Master Data Build

Material Cataloguing

Asset Hierarchy Creation

Data Capturing

PDF, XLS Auto Population

Auto Deliverable

Trend Analysis

Auto Crawl

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ERP Upgrade

Mail Notification

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