LTIMindtree

Digital Project HOTO Cockpit

Efficient Asset Information Management

Overview

Asset information is becoming a very crucial element to support the business needs related to digitization and automation to become an intelligent enterprise. Currently, the majority of Industry is maintaining the Asset information in siloed or disintegrated systems. Therefore, it is hindering the automation or advanced analytics opportunities and is difficult to get a unified asset data view. For example, various functions in an organization such as Maintenance & Reliability, Operation, Safety, etc. identify the same asset with different nomenclature, therefore, it is very difficult to get a 360-degree view of asset information.

Asset data generated during the project needs efficient handover to steady-state operations to enhance efficiencies of the maintenance and Reliability processes across various stages of the asset lifecycle. Asset data includes design data such as CAD drawings, 3D models, Specification sheet P&IDs, and Maintenance manuals, which are essential for defining effective maintenance strategy and efficient maintenance execution.

Digital HOTO (Hand Over & Take Over) Cockpit enables Business Partners to be connected in a cloud environment, where critical data regarding asset information is recorded and captured in a structured format in adherence to industry standards for efficient operations and reliable maintenance practices.

Limitations of Lack of Data Management for Business Process Lifecycle

Sub-optimal asset information quality, leading to inefficient maintenance performance.

Limited data governance and lack of central asset data repository.

Lack of adherence to industry standards – Creating unstructured asset data.

Inefficient planning & execution due to scattered information on 3D model and geo-location.
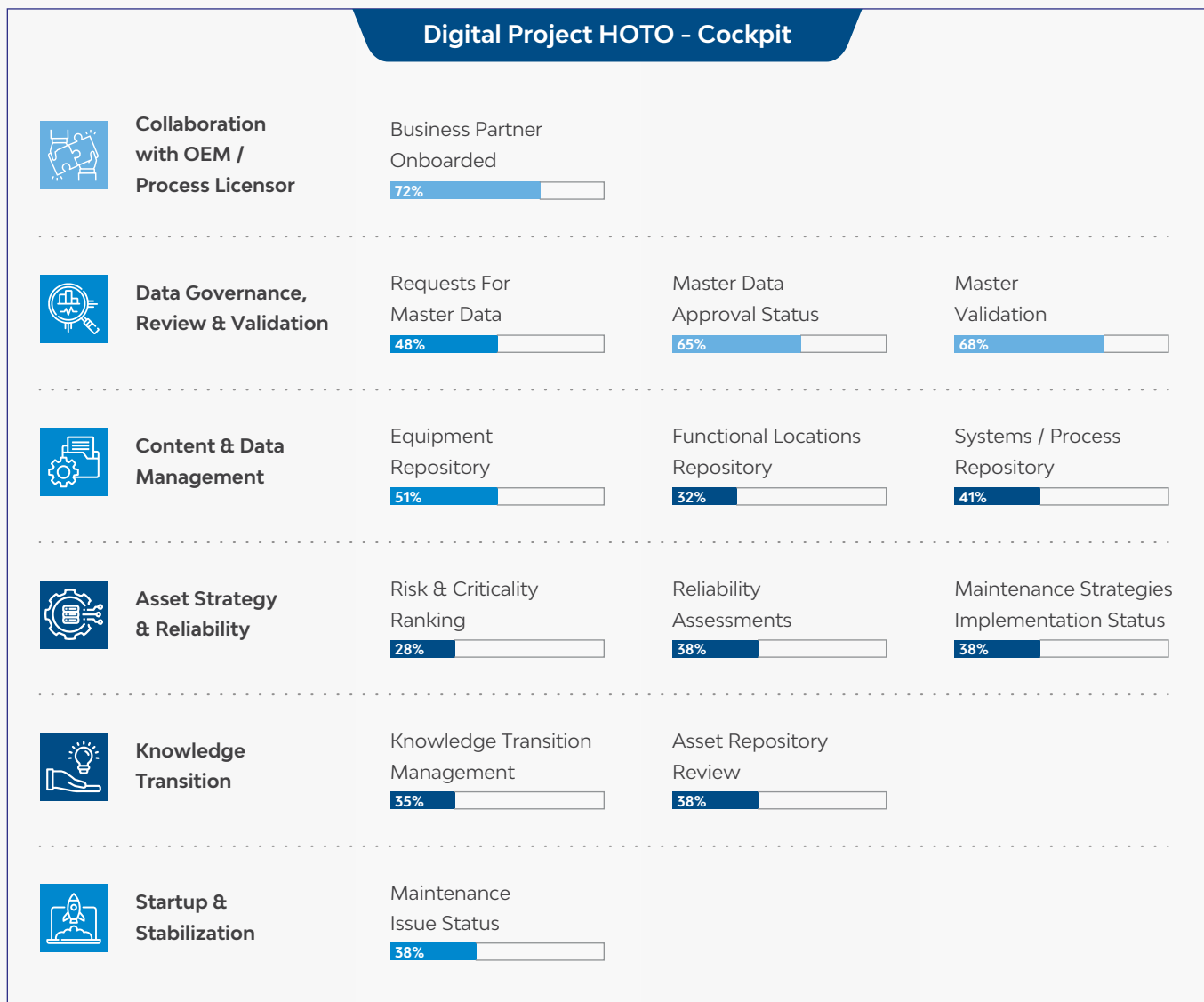
Recreation of asset data for steady-state operations.

Ineffective recording of issue history.

Why Digital HOTO Cockpit

This is a digitized framework to efficiently capture the asset information in compliance with industry standards to establish a unified asset platform, ensuring the unbroken chain of events that can provide the ability to track the information completeness and data quality from the project phase to steady-state operation, thereby streamlining handover and takeover.

Digital Project HOTO - Cockpit

Collaboration with OEM / Process Licensor

Business Partner Onboarded
72%

Data Governance, Review & Validation

Requests For Master Data	Master Data Approval Status	Master Validation
48%	65%	68%

Content & Data Management

Equipment Repository	Functional Locations Repository	Systems / Process Repository
51%	32%	41%

Asset Strategy & Reliability

Risk & Criticality Ranking	Reliability Assessments	Maintenance Strategies Implementation Status
28%	38%	38%

Knowledge Transition

Knowledge Transition Management	Asset Repository Review
35%	38%

Startup & Stabilization

Maintenance Issue Status
38%

Solution Overview

Intelligent Collaboration with Project Stakeholder

- Digital Collaboration - EPC / Process Licensor / OEM.
- Digital platform with Digital Information Exchange on cloud.

Efficient Hand Over & Take Over

- Digital Handover - automated information transition of the enriched asset data from project activities.
- Compliance with Industry standards – e.g. ISO 14224, CFIHOS.

Integrated and Effective Data Management

- Structured Master Data Management.
- Integration with existing database – SAP ERP suite.
- Ability to identify gap in stored information.
- Rating of data quality enabled.

Effective Startup /Stabilization Management

- Integrity of start-up/ stabilization issues throughout the asset lifecycle.
- Real time information sharing for all maintenance and reliability.

System Construct

SAP S/4HANA (1610 Feature Package Stack 01 or higher)or SAP ECC (ECC 6.0).

SAP IAM – Asset Central (Release 1.0), AIN & ASPM.

SAP Business Technology Platform (BTP).

KPIs Delivered

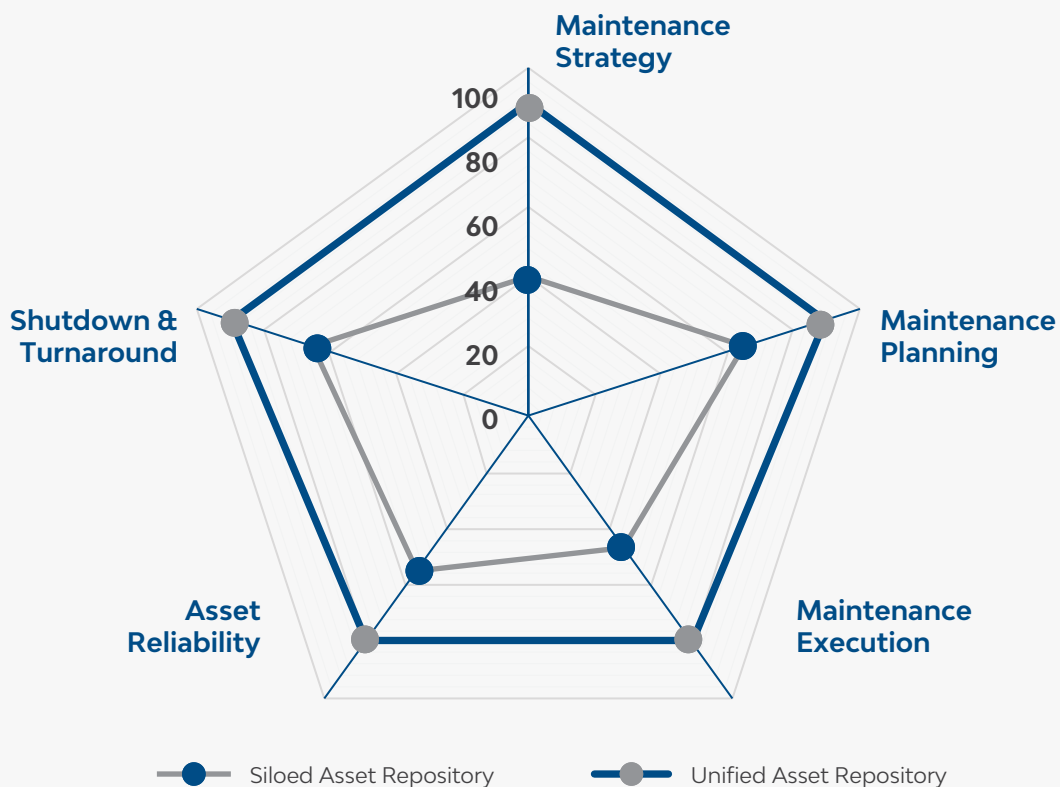| Start-up/ Stabilization Time | Asset Data Completeness | Asset Data Quality Index | Maintenance Planning Efficiency | OEE |

Business Value

☑ A **360-degree view** of asset information.

☑ **Unified asset data platform** for efficient collaboration amongst Process Licensor, EPC & OEM.

☑ **Digital handover** enables enriched data information.

☑ **Master data governance** - comply with industry-standard ISO 14224, CFIHOS.

☑ **Cost-effective maintenance strategy** from day one of steady-state.

☑ **Effective framework** to drive project knowledge transition and issue management.

Legend:
— ● Siloed Asset Repository   — ● Unified Asset Repository

LTIMindtree

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