Engineering lifecycle and asset management

Accelerating problem resolution, decision making and knowledge exchange
Introduction
The shift from paper to digital information management offers companies significant opportunities to impact the bottom line positively through improved asset management. However, the shift has been challenging.

Processes and personnel are often unprepared to deal with the massive volumes of engineering information generated through modern digital means. In many companies, this information may not be managed consistently. Content can be incoherent, cumbersome to access, partially available, or maintained in ‘silos’. Integrity can be challenged resulting in expensive engineering rework. Fragmented and unmanageable information also hampers effective decision-making process.

To resolve problems quickly, companies must have access to asset intelligently integrated information that can be visualized through a single source of truth solution.
The solution

The integrated solution makes it a single source of truth across Engineering, ERP and EAM platforms creating a digital asset. The solution supports information integrity management and availability through a common platform for the entire lifecycle of engineering information. Visual representation of the information can be done with asset hierarchy, graphical representations and/or three-dimensional models to simplify use and improve access to holistic engineering content.

The solution empowers asset personnel by enabling access to clean, traceable and coherent information through an intuitive visualization interface. Engineers, operators and technicians can focus on value-adding activities, reliability maintenance, analysis, decision making and problem resolution instead of data retrieval, validation and manipulation.

Wipro’s practitioners offer services in engineering information assessments and planning activities, data clean-up and migration, solution design, solution build, and solution delivery. Engineering information technology professionals offer integration, support and sustainability expertise.

Figure 1: Engineering information and asset management
Benefits

- Improved management of asset information
- Reduction of errors during decision making
- Support for quick onboarding and integration of new assets
- Reduction in maintenance turnaround time
- Enhanced productivity in operations
- Increased maintenance contractor productivity
- Increased inspection productivity
- Cost and schedule reductions

Features

**Clear understanding of information**
Visualization and integration enables a rapid understanding of an asset, offering new ways to improve reliability and operating efficiency.

**Bridges organizational gaps**
Asset information visualization and management enhances communication between office and field, as well as between experienced and newer employees, through a common interface, standard terms and a holistic view.

**Engineering information expertise**
With access to thousands of experienced engineers and technical staff, we leverage our legacy engineering and deep domain consulting expertise in combination with our heritage IT background to deliver effectiveness and efficiency benefits through business focused solutions and quality assured engineering information transformation with data clean-up services.

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Together, we discover ideas and connect the dots to build a better and a bold new future.

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