SAP LEAP

DIGITIZE MAINTENANCE SOLUTION

AT A GLANCE

NTT DATA's Digitize Maintenance Solution helps manufacturers implement reliability-centered maintenance strategies designed to minimize unplanned downtime, optimize asset performance and automate maintenance operations.

BUSINESS CASE

Reducing sudden failures of production equipment should be a priority for every manufacturer because of the high costs and disruption that unplanned downtime causes. As well as the direct costs incurred in maintaining or repairing the asset, the manufacturer may not be able to make up the lost production and could miss delivery deadlines, which could incur financial penalties, cause customer dissatisfaction and may even cause some customers to cancel orders.

DESCRIPTION

Digital technologies are transforming manufacturing value chains and thanks to the Industrial Internet of Things (IIoT), it is now possible for manufacturers to manage their production assets and associated maintenance processes in a holistic and smarter way, with the monitoring and decision-making done automatically by computer systems.

NTT DATA's Digitize Maintenance Solution uses advanced algorithms to analyze the real-time data produced by sensors on a machine and compare it with the historic data collected from that and similar machines.

By identifying early warning signs that are correlated to the specific conditions in which a machine is operated, the algorithms can predict much more precisely when a given machine will fail. This avoids the need for unplanned maintenance or repairs and permits the manufacturer to continue using the machine with confidence during its Remaining Useful Life (RUL).

HOW IT WORKS

- The Digitize Maintenance Solution leverages the capabilities of SAP Predictive Asset Insights to predict equipment malfunctions before they occur, using advanced algorithms to analyze large quantities of sensor data and other operational data and so obtaining insights that help reduce machine downtime.

- If a warning condition is detected, SAP Asset Central automatically notifies the Plant Maintenance module of the SAP S/4HANA back-end system and the appropriate business processes are started to repair the defective asset.

- The work order automatically assigns a worker to the maintenance task, the necessary spare part needed for the repair is requested from the warehouse and if it's not available, then an order can be sent to an external supplier.

SUMMARY BENEFITS

- Reduces unplanned downtime and business disruption.

- Helps to optimize maintenance actions and so optimize costs.

- Automates the generation of maintenance actions.

- Sensor data can be visualized to identify potential root causes.

- Improves the utilization of resources while minimizing carbon footprint.

- Reduce the usage of datacenter by sharing information.

- Optimizes total production costs.

- Fosters the creation of ecosystems.

ABOUT NTT DATA

NTT DATA – a part of NTT Group – is a trusted global innovator of IT and business services headquartered in Tokyo. We help clients transform through consulting, industry solutions, business process services, IT modernization and managed services. NTT DATA enables clients, as well as society, to move confidently into the digital future. We are committed to our clients' long-term success and combine global reach with local client attention to serve them in over 50 countries. Visit us at nttdata.com.

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