



Wipro's Artificial Intelligence (AI) and Internet of Things (IoT) based Solution for Prognostic Asset Maintenance

Maintain and simulate your device virtually



Equipment downtime costs an average factory between 5 and 20% of its productive capacity. Estimates also indicate that unplanned downtime costs manufacturers USD 50 billion annually while only 20% of predictive maintenance programs achieve anticipated results. Wipro's solution is a prognostic solution that not only enables users to trigger asset maintenance activities as necessitated by the condition of the target system but also simulate behavior for unknown conditions.

Key takeaways



Leverages SAP Leonardo platform to seamlessly integrate data coming in from IoT and Machine Learning with back office SAP for information about spares and field requests



Indirect cost savings such as deployment of labor, savings of productive work hours due to proactive remedial action for sudden breakdown

Leverages SAP Leonardo's Machine learning and IoT platform to deliver a real-time, continuously adaptive and self-learning solution

Solution features



Ready demonstration of a continuous learning based real time AI/ML prediction model for predicting asset failure



Simulates asset behavior with Digital Twin



Integrates with SAP S/4HANA system to turn insights into actions



Leverages SAP Leonardo platform for IoT and Machine Learning



Identifies intelligent spares identification and automatically raises a request in SAP MRO

Business benefits



Asset protective maintenance

- Successful transition from breakdown maintenance to condition based maintenance
- Real-time tracking of the components' health



Strategic and operational

- Significant reduction in maintenance costs, reduced mean-time to repair, lesser downtime of equipment
- Historical data from SAP enabling repair or replace decision



State-of-the-art solution

- Unsupervised deep learning model that continuously learns based on new sensor inputs
- Low false negatives in prediction accuracy



Human life risk

- Reduced risk to human life, as we shift from breakdown maintenance to condition based maintenance



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