



Smart Asset Twin

Virtual representation
of physical assets

Wipro's Smart Asset Twin provides a virtual representation of assets using IoT, Cloud, physical simulation and advanced analytics. The solution enables operators to gain insights on the condition of the asset in real-time and reduce down time using predictive maintenance and asset simulations.

The Solution assists operators in deriving actionable insights on performance and health of the asset

Key takeaways



Provides contextualized information reflecting the status of the asset in real-time



Leverages anomaly detection and statistical models to generate alerts and provide insights about remaining useful life



Uses AI – ML algorithms, physics based modeling and hybrid models for better prediction accuracy



Capitalizes Identifies opportunities for optimization by allowing operation teams to run what-if simulations

Key benefits

Improve Efficiency

Smart Asset Twin can support decision making and optimize day to day operations while informing business owners of potential money-saving changes.

Monitoring and Holistic View

Using data from multiple sources like MES, SCADA, ERP, the solution provides a holistic view of the current working condition of the asset.

Reduce Down Time

Combined with predictive maintenance capability, Smart Asset Twin can identify abnormal asset behavior, allowing human operators to react promptly and reduce downtime.

Wipro's Smart Asset Twin is a virtual representation of a physical asset

Features



Real Time Monitoring: The solution provides the ability to monitor the machine in real-time.



Simulations: Optimize the asset performance under different conditions without physical experimentation.



Early Detection of failures: Identify abnormal asset behavior, allowing operators to react promptly and reduce downtime.

Wipro Limited
Doddakannelli, Sarjapur Road,
Bangalore-560 035, India

Tel: +91 (80) 2844 0011
Fax: +91 (80) 2844 0256
wipro.com

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