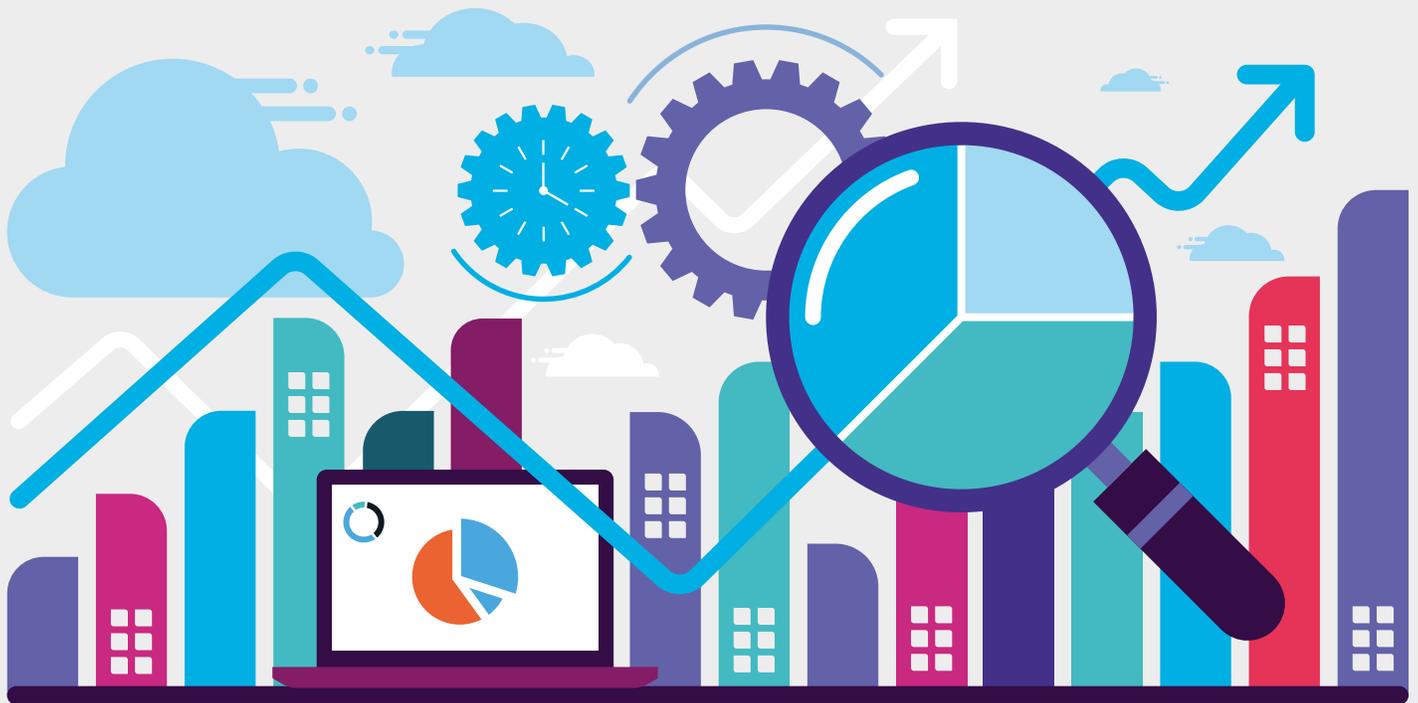




Shift from reactive to predictive maintenance

Capgemini's Predictive Asset Maintenance



Before the advent of digital, manufacturers had no choice but to take a reactive approach to asset maintenance, making it difficult to stay ahead of problems like unexpected equipment downtime or performance inefficiencies. Fortunately, that's all changed with the rise of technologies like IoT that provide manufacturers the opportunity to drive significant gains in productivity, efficiency, and profit.

Predictive Asset Maintenance with Capgemini and AWS

Capgemini's Predictive Asset Maintenance solution enables organizations to monitor equipment health to predict issues and failures before they happen. The solution leverages next-generation data collection, analytics, and communication with AWS artificial-intelligence and machine-learning services to monitor equipment parameters such as temperature, pressure, flow rate, and vibration. This real-time monitoring helps calculate equipment health and detect anomalies and failure patterns of assets and processes.

The solution covers:



Data collection:

A digital twin is established to collate data from industrial systems and databases and enable cleansing and dimension reduction.



Data analytics:

A robust predictive analytics framework based on statistical algorithms and machine learning analyzes trends and correlates data.



Data communication:

Analysis feeds into dashboards and charts. When a failure is predicted, a maintenance work order is raised and sends an alert notification for preventive action.

By moving from reactive to predictive maintenance, organizations can maximize equipment uptime, enhance quality and supply-chain processes, and improve customer satisfaction.

Success at a leading industrial gas company

A leading industrial-gas company wanted to ensure the performance and availability of hundreds of pieces of equipment that are critical for plant operations. To avoid losses associated with downtime, we developed an application to capture and monitor machine data and predict potential failures. As a result, the organization saw a reduction in incidents of unplanned downtime.



Your digital transformation partners

Capgemini and AWS have supported manufacturers all over the world in their shift to digital. We bring deep experience, rich expertise in cloud, artificial intelligence, and machine learning, and accelerators to help you realize value, faster.

An AWS Premier Consulting Partner and AWS Managed Service Partner, Capgemini works with organizations around the globe to harness the power of the AWS cloud to transform their businesses and reinvent themselves for the digital world. Our end-to-end portfolio of strategy, migration, application modernization, cloud-native transformation, and platform engineering for AWS means that whatever your objective, we can help you meet the challenges of today while staying ahead of the pack tomorrow.

Jumpstart your journey to digital business today

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About Capgemini

Capgemini is a global leader in consulting, digital transformation, technology and engineering services. The Group is at the forefront of innovation to address the entire breadth of clients' opportunities in the evolving world of cloud, digital and platforms. Building on its strong 50-year+ heritage and deep industry-specific expertise, Capgemini enables organizations to realize their business ambitions through an array of services from strategy to operations. Capgemini is driven by the conviction that the business value of technology comes from and through people. Today, it is a multicultural company of 270,000 team members in almost 50 countries. With Altran, the Group reported 2019 combined revenues of \$18.5 billion.

Note: current conversion is €1 to \$1.09 (4/1/20)

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