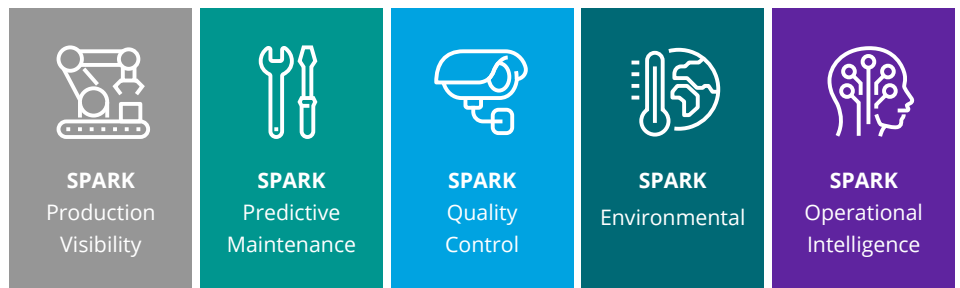# DXC SPARK IoT for Manufacturing

To **accelerate revenue for manufacturing companies,** DXC Technology and Amazon Web Services (AWS) have partnered to help **optimize product development, manufacturing, supply chain, marketing and distribution** with IoT compute, machine learning, and analytics platforms and services. With **SPARK**, manufacturing companies can easily buy and configure IoT cloud solutions to build great brands, increase organizational dynamic response to market opportunities, and drive operational efficiency with proven, industry-specific innovations and solutions. Use cases are:

SPARK Production Visibility	SPARK Predictive Maintenance	SPARK Quality Control	SPARK Environmental	SPARK Operational Intelligence

DXC and AWS will collaborate with you on defining and deploying the use case. The scope of work will include the following:

Operational analysis

- Capture of operational strategy and value discipline
- Assessment of current and target operational maturity
- Prioritization by functional areas to close gaps
- High-level transformation map for people, process and technology
- Report with next steps

Design prototype

- Define business context
- Define goals and objectives
- Develop user stories
- Craft proposal for deploying proof of concept

Pilot/proof of value

- Scope and plan proof of concept (3 weeks)
- Conduct deep-dive survey and design into the factory (3 weeks)
- Implement the proof of concept
- Provide support (~3 months)

DXC Technology differentiators

- Experience and skills in manufacturing and Industry 4.0
- Partnerships with technology leaders including Amazon and major ERP, MES and PLM providers
- Competency to deliver complex projects on a global scale
- Expertise to move your project from proof of concept into production
- Access to unique assets allowing fast-track project delivery

Solutioned offering accelerators for SPARK

SPARK Production Visibility

Production Visibility

Provides operators and production management with real-time visibility of production conditions with alarms when production thresholds are breached across the entire factory. This enables much faster and more informed decisions when unplanned events occur — saving production cost, energy and time, while improving the ability to meet supply demands. It also helps production management and continuous improvement teams understand which machines are causing downtime, as well as when and why.

SPARK Predictive Maintenance

Predictive Maintenance

Provides maintenance teams with visibility of machine health status across various conditions with an alert system that is triggered when a connected machine deviates from its established baseline condition. This enables maintenance teams to make more informed and timely decisions related to machine maintenance requirements, reducing the risk of unplanned downtime caused by asset failure.

SPARK Quality Control

Quality Control

Uses computer vision to detect defects with products during production and provides real-time alerting when anomalies are detected so that production management can make informed and timely decisions about necessary remediation actions during shifts. Decision timeliness can significantly reduce the impact of producing substandard products — removing waste and cost and providing the ability to rerun batches in time for deliveries. Having historical data on the detected defects, along with the actions taken by the production team, allows management to highlight areas they can focus on to remove the root causes of defects.

SPARK Environmental

Environmental

Provides both real-time and historical reports on energy usage during production. This enables production management to reduce nonproductive energy consumption during shifts and helps continuous improvement teams understand where improvements can be made to optimize/balance energy consumption. Provides the ability to inform customers on how much energy and what types of energy were used during production.

SPARK Operational Intelligence

Operational Intelligence

Provides reports on key performance indicators by combining data sources. Allows production management and continuous improvement teams to make more informed and timely decisions on where process improvements, machine reconfiguration and supply chain changes are required, as well as what the impact of change is to the balance sheet and customers. This promotes further incremental environmental improvements.

Learn more at dxc.com

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About DXC Technology

DXC Technology (NYSE: DXC) helps global companies run their mission-critical systems and operations while modernizing IT, optimizing data architectures, and ensuring security and scalability across public, private and hybrid clouds. The world's largest companies and public sector organizations trust DXC to deploy services to drive new levels of performance, competitiveness, and customer experience across their IT estates. Learn more about how we deliver excellence for our customers and colleagues at **DXC.com**.