# clearscale

# AWS Solutions for the Manufacturing Industry

## Embrace Industry 4.0

The manufacturing industry is undergoing massive digital transformation. Technologies related to the Internet of Things (IoT), artificial intelligence and machine learning (AI/ML), big data, and more are enabling manufacturing companies to unlock new sources of value. However, using these technologies to their full potential requires powerful and scalable IT infrastructure.

Fortunately, the AWS cloud offers many tools and solutions that manufacturers can use to upgrade IT operations for the modern era. And with ClearScale's help, setting up a new IoT network, gathering field data at scale, and augmenting physical operations with machine intelligence on AWS is easy.

## Here are three reasons to choose AWS and ClearScale

### Increase Enterprise Efficiency

Many manufacturing businesses still rely on legacy technology and manual workflows. On AWS, IT leaders can automate time-consuming activities, speed up development, transform data, and lower costs using cloud-native solutions.

#### Customer Highlight: ADCO

CHALLENGES: ADCO needed to create a secure way for employees to access files stored on various networks. The existing method of sending and receiving files between locations was too time-consuming and risky.

SOLUTION: ClearScale used AWS Storage Gateway to enable access to unlimited, cost-efficient cloud storage based on the latest security best practices. The service also simplified storage management, lowered costs, and automated much of what was previously done manually.

BENEFITS: Today, authorized ADCO employees can quickly access the resources they need without additional user authentication steps. ADCO's IT systems remain secure, while file-sharing processes are faster than ever.

### Enable Smart Factories

Much of the excitement of Industry 4.0 revolves around the ability to gather detailed insights across large geographic footprints and implement predictive analytics. AWS offers a robust suite of solutions for setting up and managing secure IoT networks at scale that allow operators to stay on top of all activity.

#### Customer Highlight: QMI

CHALLENGES: QMI Manufacturing needed help building a new software product and custom web application for an IoT-based earthquake detection service. There were several ways to approach the project, and QMI wasn't sure of the best path forward on the cloud.

SOLUTION: ClearScale designed an AWS IoT infrastructure using various services, including AWS Lambda, AWS IoT Shadow, and an Akka framework. The team also built an intuitive UI for managing all sensors deployed in the field.

BENEFITS: Today, QMI has a sophisticated IoT network capable of gathering, aggregating, and analyzing data from many smart devices. All data is consolidated and analyzed in a centralized platform, allowing the client to harness the full power of its IoT application.

### Accelerate Innovation

The days of slow and long development cycles are over. Manufacturing businesses can finally accelerate innovation, conduct advanced analytics, and participate in today's fast-moving global economy, thanks to AWS.

#### Customer Highlight: Samsung

CHALLENGES: Samsung needed agile cloud infrastructure to enable rapid development and innovation around its cloud printing service. The company partnered with AWS and ClearScale to ensure it was exploring all possible options.

SOLUTION: ClearScale delivered a scalable, cloud-based solution that uses AWS CloudFormation, the ELK stack, Cassandra on AWS, and more. ClearScale's DevOps experience, specifically, enabled Samsung to automate deployments.

BENEFITS: Samsung's Advanced Printing Solutions division now has a highly efficient and cost-effective DevOps capability. The team can bring new offerings to market more quickly and sustain an agile development process to stay ahead of the competition.

## About ClearScale

Founded in 2011, ClearScale provides cloud-native consulting solutions designed exclusively for AWS. We've earned 11 AWS competencies and have demonstrated our technical expertise for all types of businesses, including manufacturing companies, on the AWS cloud.