

# Artificial Intelligence of Things: Unlock the Hidden Value from Your Industrial Data

## Today's industrial organizations need to:



- Integrate data across plants and technologies to enable AI-ready solutions
- Collect and process large volumes of data for reporting and analysis
- Visualize data to identify trends, outliers and patterns to drive decision-making
- Collaborate on domain-specific data science applications without generating new code

## Aspen AIoT Hub™

### Connecting AI-ready, Industrial Data with AWS



The Aspen Artificial Internet of Things (AIoT) Hub enables seamless, flexible data mobility and integration across the enterprise from sensors to the edge and cloud. It accelerates the delivery of visualization and insights for capital-intensive industries. Working with AWS, the Aspen AIoT Hub is the cloud-ready environment for next-generation Industrial AI products and solutions to deliver on the vision of the Self-Optimizing Plant.

## Key Capabilities



### Industrial Data Integration

Gain access and mobilize fully integrated data from the edge to cloud across the enterprise to drive AI-ready solutions



### Data Visualization and Workflows

Deliver actionable insights and business workflows leveraging industrial data to gain a competitive advantage



### Cloud-ready Infrastructure

Scale as needed on AWS, safely and securely, to realize the vision of the self-optimizing plant



### Industrial AI Application Ecosystem

Empower data scientists to collaborate with domain experts to build data-rich, fit-for-purpose AI applications

## Aspen Technology on AWS

Scaling AI requires providing the tools, infrastructure and workflows for powering Industrial AI across the solution lifecycle. It also requires the software, hardware and enterprise architecture needed to productize AI in industrial environments, including broader collaboration between development, data science and infrastructure capabilities such as CloudOps, DevOps, MLOps and others. Working together, Aspen Technology and AWS are helping industrial organizations mature beyond sporadic AI proof-of-concepts to an enterprise-wide Industrial AI strategy with the Aspen AIoT Hub™ and Amazon S3.

### Features



#### Industrial AI Readiness

Aspen Technology embeds AI into our domain-specific, fit-for-purpose applications – so you don't have to. Aspen's Industrial AI solutions, underpinned by the Aspen AIoT Hub, significantly enhance existing models with industrial data and domain expertise. These next-gen of AI-enabled models are more performant, more accurate and more comprehensive – and sustain for longer periods of time. When combined with our experience, new levels of asset performance can be achieved. And, with the AWS infrastructure, scalability is never an issue.



#### Accelerate Time-to-Value

Get seamless, flexible data mobility and integration for all your industrial data. The Aspen AIoT Hub supplies the data management, edge and cloud infrastructure, and a production-grade AI environment to build, deploy and host Industrial AI applications – this significantly accelerates time-to-value for industrial organizations.

### Industrial Use Cases



#### Oil Refinery

Uses Aspen AIoT Hub and Amazon S3 to simultaneously evaluate thousands of different scenarios from their data to identify the optimum crude oil slate for processing.



#### Process Plant

Deploys an advanced class of industrial AI-enabled models that combine machine learning and first principles to deliver more comprehensive, performant data models.



#### Chemical Plant

Gains real-time customer insights to strengthen agility in supply chain networks through rich, dynamic workflows that automatically adjust Sales and Operations Planning (S&OP) and detailed scheduling in response to fluctuating market conditions

## Get started with Aspen Technology solutions on AWS

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