Scalable Digital Twin of Products and Production from Edge to Cloud
11:00AM - 11:30AM | SIEMENS

Siemens is leading the delivery of solutions that leverage digital twins to provide true business value. Learn how Siemens is working with AWS to develop a new service like AWS IoT TwinMaker—that Siemens can leverage within their Xcelerator portfolio. These new services make it easier for customers to create digital twin solutions that can scale from the simplest to the most complex use cases.

How KAMAX Connected Their Industrial Machines to AWS in Hours Instead of Weeks
11:30AM - 12:00PM | CLOUDRAIL

KAMAX, a leading manufacturer for complex cold-formed parts, has optimized their process for output assessment. Learn how KAMAX leveraged CloudRail solutions to connect their assets within hours to AWS IoT services. This industrial IoT collaboration increased manufacturing effectiveness within their plants by automating and optimizing traditionally manual tasks, increasing production capacity, and implementing real-time condition monitoring. This solution has helped KAMAX realize quantifiable time savings of 2.5%-3.5%.

How to Transform Your Factory and Get Better Data with IIoT
12:00PM - 12:30PM | REPLY

Schaeck Process, the global technology and market leader in material handling and control, transformed from a manufacturing expert into a digital service provider by building its own IoT platform on AWS. In this session, we will share the story behind this successful journey by showing you how AWS technology can be translated into actual business values once you look beyond technical complexity.

From a Manufacturing Expert to a Digital Service Provider in 6 Months
12:00PM - 12:30PM | REPLY

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Artificial Intelligence to Ensure Quality Management in Manufacturing
1:00PM - 1:30PM | SYNTAX

During this presentation, learn how the Syntax digital platform automatically analyzes the quality of goods produced. This platform automates tasks that are still a predominantly manual process, thus eliminating errors and reducing costs.

The Evolution of the Plant Connectivity
1:30PM - 2:00PM | AWS

Plant connectivity and mass data ingestion has been a core driver for successful manufacturing automation use cases online, delivering valuable business outcomes to the plant. Participants in this session will build an understanding of the technical constraints and tradeoffs between different architectures used when connecting modern manufacturing facilities to the AWS cloud. We will also cover best-practices to build efficient and bidirectional communication between the plant and the cloud for controlling and automating production processes.

Visualize Invisibility – Human: Machine Collaboration by Digital Twin IAPM
2:00PM - 2:30PM | BOSCH

Imagine one large turbocharger asset: A multistage centrifugal blower, running 24/7 throughout the whole year. You are the responsible maintainer of this machine and know that it will eventually fail...again, but you will not know when or why. How do you feel? Stressed? Digital Twin IAPM resolves these business problems and can help identify the root cause of a failure, eliminating the stress and diagnostic time.

Turn Factories into Micro Services
2:30PM - 3:00PM | SOFTWARE DEFINED AUTOMATION

Software Defined Automation is a new concept for control engineers that can help overcome the tight coupling of hardware and software in factory automation, as well as the limited spillover of innovations from information technology to industrial real-time control. Learn how automation engineers are able to manage PLCs from vendors like Siemens, Rockwell, Beckhoff, and other cloud-based software systems with full transparency of deployed code, complete traceability of changes, and the ability to automate code updates in minutes. This session will provide hands-on experience to show how Git-based version control for PLCs increase developer collaboration and PLC code quality.

Demystifying the Cloud for the OT Engineer and How to Get Started in Your Cloud Journey
3:00PM - 3:30PM | AWS

With cloud applications becoming omnipresent in the manufacturing world, it is critical for the OT engineer to understand the benefits of the cloud and how it will change their day-to-day job. This session will cover the basics of AWS Cloud, Edge, and IoT with a focus on manufacturing. We will also provide guidance on how to start a cloud learning journey.

Energy Management: How Companies can Systematically Capture, Understand, and Optimize Their Energy Performance
3:30PM - 4:00PM | SOFTSERVE

Learn how Softserve helps customers reduce energy and carbon consumption. View use cases that demonstrate success and encourage the transition to greener energy to combat climate change.

Digital Transformation Win-Win: Increasing Output While Decreasing Energy Use
4:00PM - 4:30PM | TENSIORIOT

Whether counting products, detecting performance changes, or simply knowing when machines are doing value-adding work, increasing situational awareness of the production environment is an important first step in the digital transformation of industrial operations. In this session, learn how one manufacturer was able to gain insight to improve throughput over 15% while reducing energy consumption over 10% as part of its digital transformation journey. This initial improvement was made possible through the visualization of equipment telemetry. Further improvements were achieved with the use of machine learning, leading to even greater benefits for both production and sustainability.

Best Practice: On the Road to a Fully Automated End-To-End Material Flow
4:00PM - 4:30PM | KINEXON

To remain competitive in today's times, companies must seek continuous improvements like optimizing processes, increasing efficiency, and significantly saving costs. In this session, gain insights into a current project with the automotive supplier, Continental. Learn how location-based process automation can pave the way to a fully automated end-to-end material flow, helping companies meet their needed requirements.

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How to Transform Your Factory and Get Better Data with IIoT
12:30PM - 1:00PM | TELIT

The Internet of Things (IIoT) is changing manufacturing. Connecting assets together empowers manufacturers to deliver new business opportunities and gain complete visibility into their data. IIoT also enables increased uptime, quality, and productivity. Hear how Pirelli implemented the Telit and AWS solution to enable the high-volume collection of critical machine data, orchestrate time series data, and integrate data into the AWS Enterprise Data Platform. The outcome empowers intra- and inter-factory services at Pirelli to improve their access to data, operational intelligence, and identify and execute action items.

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Connect and Control Your Machineries with Siemens LOGO! and AWS IoT Core: Customer Story

11:00AM - 11:30AM | AWS

Connect and control machines with Siemens LOGO! and AWS IoT Core. Customer Story: Tecnolectric is a panel builder/builder of small machines. The application is about big hoods for restaurants. Tecnolectric provides the ability for their customers to control all the parameters of their hoods; troubleshooting, and data analytics capabilities. They connected each hood with a Siemens LOGO! to AWS, allowing customers the ability to view and track their hood data remotely.

Siemens, NavVis and AWS: Leveraging Large-scale Reality Capture and Computer Vision to Enable a Digital Building Twin

11:30AM - 12:00PM | NAVVIS

Managing existing brownfield buildings is a challenging task, as it usually provides inaccurate or lacking data. Large-scale, fast, and accurate reality capture and object detection algorithms are key technologies to automate and scale the creation of a digital building twin and providing a solution to this challenge. To create a solution for detecting objects in indoor environments with machine learning, Siemens, NavVis and AWS formed a close partnership. Learn more about this solution with the NavVis team at the AWS booth.

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Io-key & Apollo: 20,000 Industrial Sensors via Plug & Play in AWS

12:30PM - 1:00PM | AUTOSEN

In the session, we will address the challenges a commissioning engineer faces when bringing industrial sensors to the cloud. Discover how AWS IoT Core, AWS IoT SiteWise, and Cloud Formation Templates are used in combination with io-key and apollo to solve these challenges. This creates a unique user experience that enables sensor data to be made available to AWS customers in minutes via plug and play.