Accelerate OT Asset Productivity With Predictive Analytics

Get embedded AI with IoT data for operations-centric intelligence at scale

Business impact

Business-friendly predictive analytics combined with IoT-connected assets in operational environments can quickly uncover new insights for all data streams. And you can use this insight to shift your workforce approach from reactive to proactive.

With SAS and ClearBlade, operations leaders are optimizing KPIs and metrics to deliver the most critical outcomes in real time.

Challenges

Often in operational technology environments, action must be taken as the data arrives, which is difficult due to the volume, diversity and velocity of IoT data. Simply applying rules and thresholds to real-time data often results in false positives.

Top challenges in operational technology (OT) environments include:

Data streams are not analyzed due to scarce IT and data science skills. Organizations are being inundated with real-time data arriving from machines, smart devices, building management systems, environmental sensors, apps, wearables and more. Gigabytes of data are simply pushed into traditional data warehouses in hopes that it will eventually bring value. Analytics skills for IoT data are in short supply.

Undesirable outcomes due to lack of predictive insights. With each passing minute, unanalyzed data becomes less relevant as conditions change and new data piles on top of old. OT leaders are not able to see the trends emerging in overall equipment effectiveness, causing massive unplanned downtime, rising scrap rates and declining yield and product quality.

Operators incorrectly believe their environments are optimized, but they are actually leaving value on the table. Alerting helps operators to know that a failure is about to happen, but doesn't give enough advance notice for failure prevention. Thinking that alerts are "good enough" means the value from your OT environment is being left on the table. Operators don't have a way to understand the probabilities and precursors to failure or the capability to build models that can predict the results they want.

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DISCOVER & DEFINE
2 WEEKS

Understand Business Problem

Define Assets and Rules

Connect Devices

CONFIGURE
4 WEEKS

Gather Data

Build Models

Validate Outputs

PRODUCTION
2 MONTHS

Connect Facility

Integrate Workflow

Validate Success

SCALE
6 MONTHS

Expand Facilities & Assets

Increased Automation

Model Governance

Our joint approach

Together, ClearBlade and SAS accelerate the ability of operations leaders to effectively capitalize on the hidden insights in all of their data streams generated from IoT-connected assets. You'll start to see results within weeks by using a platform for configurable streaming data and advanced analytics that can work for any IoT asset across a wide range of applications.
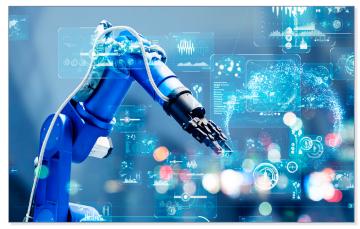
Conduct workshops. SAS and ClearBlade facilitate working sessions to understand the value for potential use cases, data readiness and OT decisions.

Run an operational production pilot. ClearBlade provides a no-code environment for defining plant asset hierarchies and an ability to connect all your asset-based gateways and devices across numerous protocols. SAS provides a user-configurable streaming data and advanced analytics accelerator framework that integrates with the ClearBlade platform to deliver predictive asset insights for a wide range of business challenges. This preproduction pilot validates the value of proposed use cases in a matter of weeks.

Scale capabilities. After users validate a production rollout, the solution provided by SAS and ClearBlade has the horsepower to scale more use cases across the enterprise or take existing production use cases to many more assets and plants.

Offer flexible options. Our approach goes from vision to value and gives customers the choice to run the solution themselves or arrange ongoing tailored engagements.

Benefits

With SAS and ClearBlade, operations leaders can easily use AI and streaming analytics to turbocharge their IoT-connected assets, quickly generating new value from all their data streams and optimizing their OT outcomes and workforce without relying on IT and data scientist skills.

Focused on outcomes. Rapidly increase savings on operational and capital costs (e.g., enabling new business, improved yield and reduced downtime).

Rapid time to value so you don't waste any of your investment.

Workforce savings and training. Upskill subject matter experts and enable citizen data scientists to use analytics to get new value from OT. Free overtaxed internal staff to focus on core business functions.

Runs in your actual production setting. Meet your budget and scaling requirements, including a real-world pilot connected to your actual assets, not in some off-premises lab environment.

Let's talk!

Feel the acceleration with the SAS and ClearBlade approach to delivering new value from all the streaming data generated from AI-powered, IoT-connected assets in the OT.

To learn more, visit sas.com/ClearBlade

POWER OF THE PARTNER

At SAS, we love bold questions. And when we combine our analytics leadership with the innovative technology and expertise of our partners, we help our customers turn data into answers. That's the kind of curiosity that moves the world forward. That's the **Power of the Partner**.