AVEVA

Value of Predictive Analytics for Industrial Applications

Machines don't have to fail. The modern industrial enterprise is generating massive amounts of data. Predictive Asset Analytics turns that data into actionable insight to help avoid equipment failure and keep machines at optimal performance

Proven Results with a Trusted Solution

Improving your asset's reliability, performance, and safety are top priorities for AVEVA's Predictive Asset Analytics solution. Designed to focus on existing assets and help reduce unscheduled downtime and maintenance costs, Predictive Asset Analytics provides early warning notification and diagnosis of equipment issues days, weeks or months before failure.

$4,000,000+	avoided through early identification of power generation turbine blade damage
$500,000+	avoided due to early identification of a plant motor coupling approaching failure
$370,000	avoided due to early warning of pump feedwater heater and bypass valve problems
$250,000	avoided due to early warning of a bearing seal differential pressure problem
$250,000	savings per year through identification of pump inefficiencies for thermal performance improvements
$240,000	avoided by early identification of improper control valve positioning
$50,000+	avoided through performance optimisation

> "Predictive Asset Analytics was the software that convinced me that machine learning is real and it works."
>
> **Jane Arnold,** Executive Vice President and the Head of Global Process Control Technology, Covestro

Assets are the heart of your business. In this digital age, as vast amounts of data are unleashed, we are presented the opportunity to drive even greater efficiency and optimisation of assets and processes.

Where is Predictive Asset Analytics Used?

Equipment type and manufacturer agnostic including key assets in each of the industries below. Application of the technology to assets is virtually limitless.

Power and Utilities
- Turbines
- Pumps
- Transformers
- Generators
- Motors
- Coal fired power plants
- Compressors
- Breakers
- Nuclear generation
- Renewables

...and other transmission/distribution equipment

Oil and Gas
- Offshore pumping stations
- Transportation equipment
- Steam turbines
- Compressors
- Pipeline booster stations
- Distillation columns
- Drilling rigs
- Expanders
- Pumps

...and other critical equipment throughout the upstream, midstream and downstream processes

Mining
- Mobile Assets
- Ventilation systems
- Pumps
- Continuous mining equipment
- Conveyor lines
- Longwall mining equipment
- Ship loaders
- Crushers
- Trucks
- Earth movers
- Mills

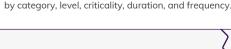### Food and Beverage, CPG
- Conveyor lines
- Packaging machines
- Bottling lines

Chemicals
- Reactors in columns
- Furnaces
- Heat exchangers
- Extruders

The Most Comprehensive Predictive Analytics Solution for Industrial Applications

Alerts and Notifications:
Create alerts on deviation between actual and predicted values. Manage and trend alerts by category, level, criticality, duration, and frequency.
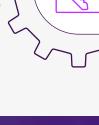
Rapid Analytics and Model Development:
Develop analytics faster with automatic back-calculation, making historical data available for the monitoring period before the current calculation was created.

Accelerate Roll Out and Time to Value:
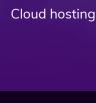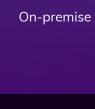Spend less time learning and more time using. Users have the ability to view the raw training data, see results of the model, compare the performance of similar assets of the same type.

Cyber Security:
Every industrial enterprise needs to be concerned about security. Predictive Asset Analytics software integrates with existing enterprise security systems. The system supports single sign on authentication, and administrators can limit user access rights and editing privileges at a granular level.

Flexible Deployment Models

- Software as a Service (SaaS)
- Cloud hosting
- On-premise
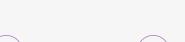- Remote Monitoring and Diagnostics as a Service

Cut Through the Hype and Invest in an Industry Leading Solution

AVEVA's Visual Asset Performance Management solution is in use today and delivering value for more customers across more industries than any other solution in the market. With proven results and a trusted software portfolio, AVEVA delivers solutions that maximize your return on asset investment.

For a big picture look at digital transformation and the leading industrial software portfolio visit aveva.com

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