

# 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. avoided through early identification of

\$4,000,000+

power generation turbine blade damage

\$500,000+

avoided due to early identification of a plant motor coupling approaching failure

\$250,000

seal differential pressure problem

avoided due to early warning of a bearing

\$240,000

avoided by early identification of improper control valve positioning

\$370,000

heater and bypass valve problems savings per year through identification of pump

avoided due to early warning of pump feedwater

\$250,000

inefficiencies for thermal performance improvements

\$50,000+ avoided through performance optimisation

learning is real and it works. Jane Arnold, Executive Vice President and the Head of Global Process Control Technology, Covestro

Predictive Asset Analytics was the software that convinced me that machine

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.



### Turbines

**Power and Utilities** 

- Pumps
- Transformers
- ...and other transmission/distribution equipment
- Motors

Generators

- Coal fired power plants
- Breakers Nuclear generation
  - Renewables

Compressors

## Offshore pumping stations

Oil and Gas

- Transportation equipment Steam turbines
- Pipeline booster stations Distillation columns

Compressors

Expanders

Drilling rigs

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

Crushers

Trucks



#### Mining Mobile Assets

- Ventilation systems
- Pumps
- Continuous mining equipment
- Food and Beverage, CPG
- Longwall mining equipment
- Ship loaders

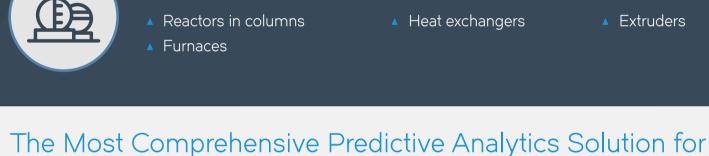
Conveyor lines

Earth movers Mills

#### Conveyor lines Packaging machines

Extruders

Bottling lines



### Reactors in columns **Furnaces**

Chemicals

Industrial Applications

Heat exchangers

# Alerts and Notifications: Create alerts on deviation between

actual values and predicted values Manage and trend alerts by category, level, criticality, duration, and frequency

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



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.

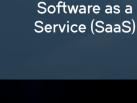
Cyber Security: Every industrial enterprise needs to be concerned about

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

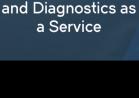
Accelerate Roll Out and Time to Value:

of similar assets of the same type.









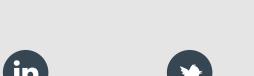
Remote Monitoring

## Cut Through the Hype and Invest in an Industry Leading Solution

AVEVA's Predictive Asset Analytics 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 maximise your return on assets investment.

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

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**AVEVA** 



**About AVEVA** 

www.aveva.com

AVEVA is a global leader in engineering and industrial software driving digital transformation across the entire asset and operational life cycle of capital-intensive industries. The company's engineering, planning and operations, asset performance, and monitoring and control solutions deliver proven results to over 16,000 customers across the globe. Its customers are supported by the largest industrial software ecosystem, including 4,200 partners and 5,700 certified developers. AVEVA is headquartered in Cambridge, UK, with over 4,400 employees at 80 locations in over 40 countries.

@avevagroup

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