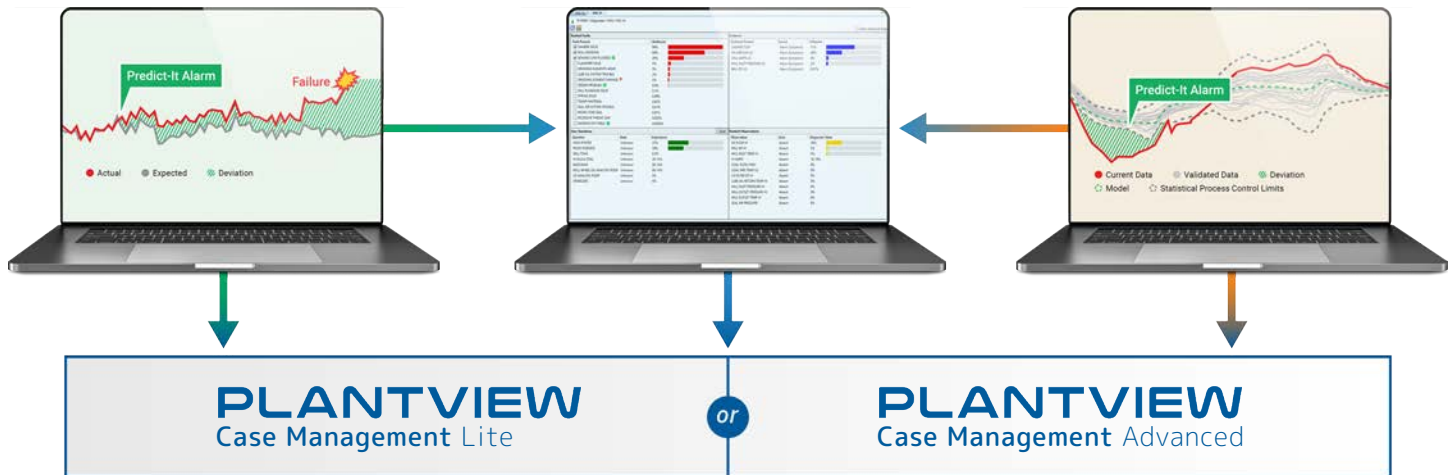
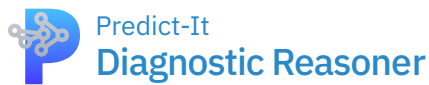




Predict-It Suite

Modules for Equipment Health Monitoring

Predict-It addresses the challenges of analyzing continuous and transient process operational data by leveraging the OSIsoft PI System and ECG's advanced data evaluation technology.



The Predict-It Advantage

Four powerful modules allow users to predict and diagnose impending equipment breakdowns well before they occur and aid in the planning and management of proactive maintenance approaches. Find significant changes in critical assets with two anomaly detection modules. Pinpoint the root-cause of faults using Bayesian network technology for differential diagnosis. Manage cases to streamline O&M operations, reduce costs, and drive your P&L statement success.

Predict-It is easy to deploy aided by automated processes and templates, or via ECG services where computer scripts transfer information for model creation. Predict-It helps organizations increase up-time and support condition-based maintenance strategies, which save resources and dollars. With key asset health and operational metrics, you have the information needed to transform your maintenance approach, protect assets, and positively impact your bottom line.

ECG's Predict-It harnesses years of industry knowledge, leveraging advanced statistical technologies, and reflects the ongoing dialogue between ECG and our software users. Our commitment to product excellence and client success sets ECG apart in both customer service and the performance of our software and services.

Predict-It APR

Predict-It's Advanced Pattern Recognition (APR) module uses similarity based modeling for early detection of significant events during normal operation. Modeling algorithms track trends in process variables on a continuous basis and compare them to historical operation. This Digital Twin Technology acts as a virtual model of an asset, alerting engineers to developing equipment issues when the variables exceed expected limits, allowing for preemptive actions and avoiding unexpected downtime.

Predict-It Diagnostic Reasoner

Taking in alarms from both APR and Pathway monitoring as evidence, Predict-It's Diagnostic Reasoner is a diagnostic engine that capitalizes on Bayesian networks for a probabilistic ranking of all possible faults. The Diagnostic Reasoner module captures the knowledge of the SME and provides a uniform approach to interpreting fault probability. Prior occurrences of a given failure, statistical symptoms, and the strength of the causality between fault and symptom are the basis for determining the likelihood of the fault. This way, every instance of a likely asset fault is evaluated with the same metrics.

Predict-It Pathway

Pathway is Predict-It's transient process monitoring module. Pathway uses Multivariate Data Analysis, which provides a projected ideal path for a process with a beginning and end, which is based on selected "golden batches". Flagging batches, startups, or shutdowns that vary from the allowable upper and lower limits allows for faster interpretation and interrogation of processes that undergo variation in short spans of time. Monitoring these states automatically saves man-hours and shines a light on developing issues that may not be seen under normal monitoring conditions.

PLANTVIEW Case Management

The Case Management solution leverages the capabilities of Power Vision's PlantView solution. The Case Management Lite module allows users to track open issues and assess equipment health using Predict-It information specifically whereas the Advanced Module allows users to further add their predictive maintenance data for a more advanced equipment health assessment.

ECG's Remote Monitoring Service with Predict-It

Remote Monitoring of critical process equipment is conducted by experts in the industry using Predict-It's advanced analytics and diagnostics. Critical assets are protected by having the information you need, when you need it most. Our team is composed of subject matter experts with backgrounds in operations and monitoring who will act as an extension of your on-site team. Our solution is a cost-effective alternative to expensive and difficult to staff Monitoring & Diagnostic centers.

Schedule a demo today

Let us show you how Predict-It can help

Visit www.ecg-inc.com/letstalk



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