

MultiViz®  
BY VIKING ANALYTICS

# Self-Service Advanced Analytics for Predictive Operations and Process Manufacturing Data

MultiViz by Viking Analytics is a self-service analytics software for the heavy industrial companies that puts the power of data into the hands of those who understand what it means: the subject matter experts. MultiViz enables experts like condition monitoring, reliability and process experts to rapidly visualize sensor data from assets and processes. It enables the experts to prepare, analyze and process sensor data without being a data scientist.



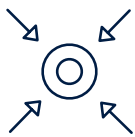
## Knowledge creation

- Centralize and digitalize knowledge
- Create more value for your company
- Retain core knowledge in the organisation



## Head start into your analysis

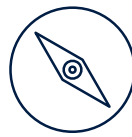
- Manage your assets organization-wide
- Build the ideal work environment for root cause analysis
- Quick start with data templates



## Advanced root cause analysis

Our cutting edge algorithms provide your experts with tools for:

- Event search
- Mode identification
- Data annotation
- Fingerprinting
- Event monitoring



## Big data is easy. With the right tools.

- Analyze multidimensional data of hundreds of sensors at a glimpse
- Get a summary of the events in your data
- Keep control with the tag assistant
- Ready to present your work any time

Data Insights, simplified.



DISCOVER  
INTERESTING  
EVENTS



DETECT  
ABNORMALITIES



PERFORM  
ROOT CAUSE  
ANALYSIS



PREDICT  
ASSET  
HEALTH



FINGERPRINT  
INTERESTING  
EVENTS



VISUALIZE,  
SHARE AND  
COLLABORATE



# Turn Complex Data into Value and actionable insights

MultiViz has a broad spectrum of features that makes it powerful for analyzing complex production data.

**Connect:** MultiViz connects to all industrial databases. Sensor tags of interest can be immediately retrieved from all databases. Data can be merged, synchronized, and visualized.

**Clean:** With built-in templates for data preparation and cleansing, experts can head start their analysis directly.

**Discover:** Discover what is important in the data. Discover interesting events and abnormal patterns.

**Diagnose:** Understand what happened and why it happened with our unique sensor ranking algorithm.

**Fingerprint:** Create data-driven signatures for relevant events and search for similar events in the data.

**Detect:** Identify operational modes, failure modes and other abnormal operational modes. Detect changes with ease.

**Predict:** Predict asset and process health based on the modes identified, events discovered and other expert annotations.

**Contextualize:** Build a holistic context around the different events discovered. Combine the events' summaries, sensor ranking lists, expert annotations and the sensor data plots in order to understand the data and contexts much better and faster.

**Capture:** Capture core expert and domain knowledge with a health history of the assets and processes.

**Collaborate:** Share experts' insights with the other experts and stakeholders in the organization for joint-analysis and troubleshooting. Collaborate with data-scientists to build machine learning applications with expert knowledge.

**Operationalize:** Operationalize experts' insights as real-time machine learning applications including smart alarms, anomaly detection, predictive maintenance and optimization.

**Scale-up:** With MultiViz, go from a machine learning based PoC to a scaled-up industrial AI solution in a matter of months.

## Application

- Asset & project management
- Browser based application
- Create asset analysis reports
- Collaborate and share

## Advanced Analytics

- Event search
- Root cause analysis
- Mode identification & annotation
- Fingerprinting
- Anomaly detection



## Visualization

- Time-series visualization
- Health trends
- Sensor ranking for diagnostics
- Anomaly visualization

## Data Engineering

- Data ingestion
- Data cleaning & preparation
- Predictive analytics
- Monitoring & alerts
- Operational Machine learning



On user PC



In-cloud



On-premise



VIKING  
ANALYTICS  
Data made clear.

## About Viking Analytics

Founded in 2017, Viking Analytics publishes software for manufacturing, chemical and process industries to easily find and share data insights. We help organizations to harness the power of their process manufacturing data and enable predictive operations. With Viking Analytics companies accelerate their digital transformation.

Connect with us: [info@vikinganalytics.se](mailto:info@vikinganalytics.se)  
[www.vikinganalytics.se](http://www.vikinganalytics.se)

