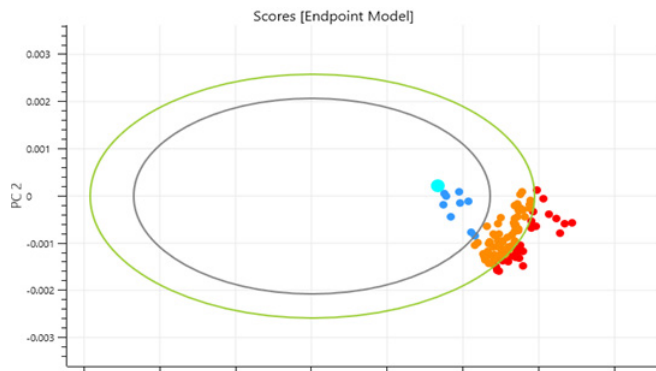


# ProaXesS by KAX Group

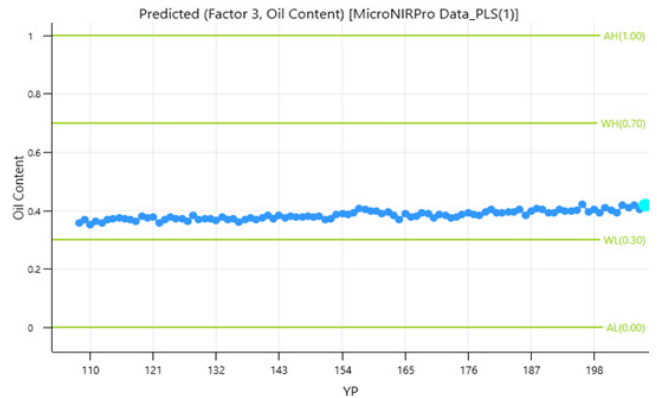
Real Time Process Monitoring and Control Redefined



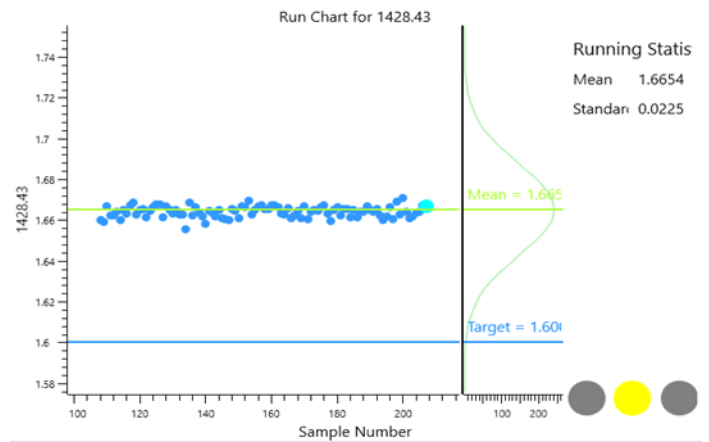
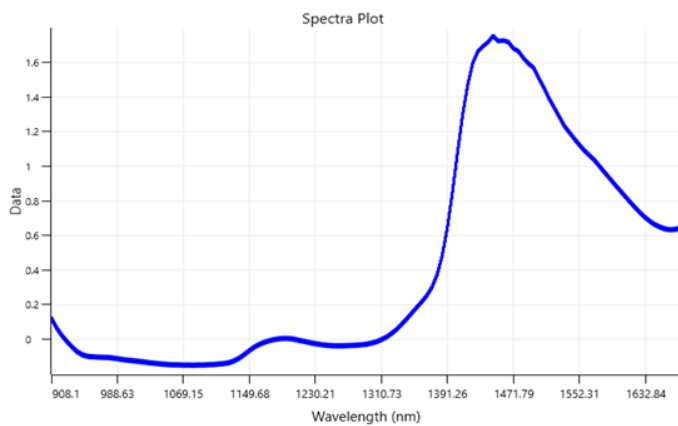
## Multivariate Statistical Process Control (MSPC)



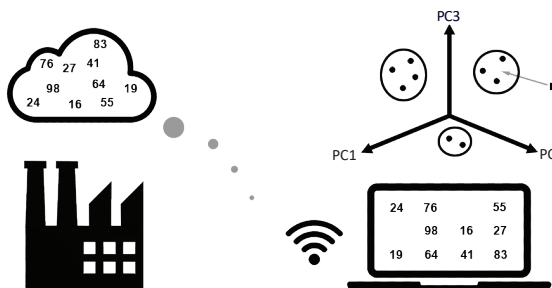
## Real Time Prediction and Trending Analysis



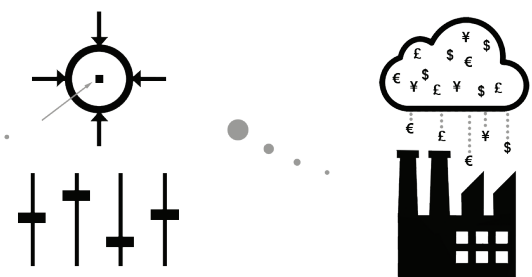
## Real Time Corrective Action Based on Data



## Live Data Display With Drill Down Options



## Statistical Process Control and Capability



Your Data

Our Software

Your Success

# What is ProaXesS?

All in One Data Acquisition, Process Analytics, Monitoring and Control Platform for All Manufacturing Industries



Data Acquisition and Databasing



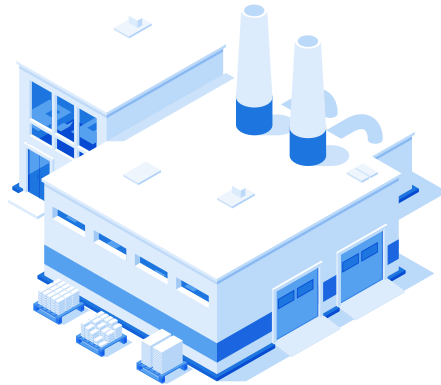
Multivariate Model Utilisation



Dashboarding



User Management



Process Improvement and Optimisation



Advanced Connectivity



Data Alignment



Reporting

## Why Do You Need ProaXesS?

- Process monitoring using single or multiple sensors, including Process Analytical Technology (PAT).
- Real time predictive analytics using Multivariate Models developed in VEKTOR DIREKTOR for implementing early event detection systems.
- Align multiple data sources acquired at different frequencies and record data from a process that can be used to develop simple to complex process models.
- Securely store and retrieve data for later use of for root cause analysis using the ProaXesS Database schema.
- Innovate and implement real changes based on data driven quality metrics.
- User defined dashboards that are meaningful to process operators with the option to drill down into more advanced plots for process engineers and scientists.

# Information to Knowledge



**Process Analytical Technology**

**Data Alignment**

**Real Time Quality Metrics**

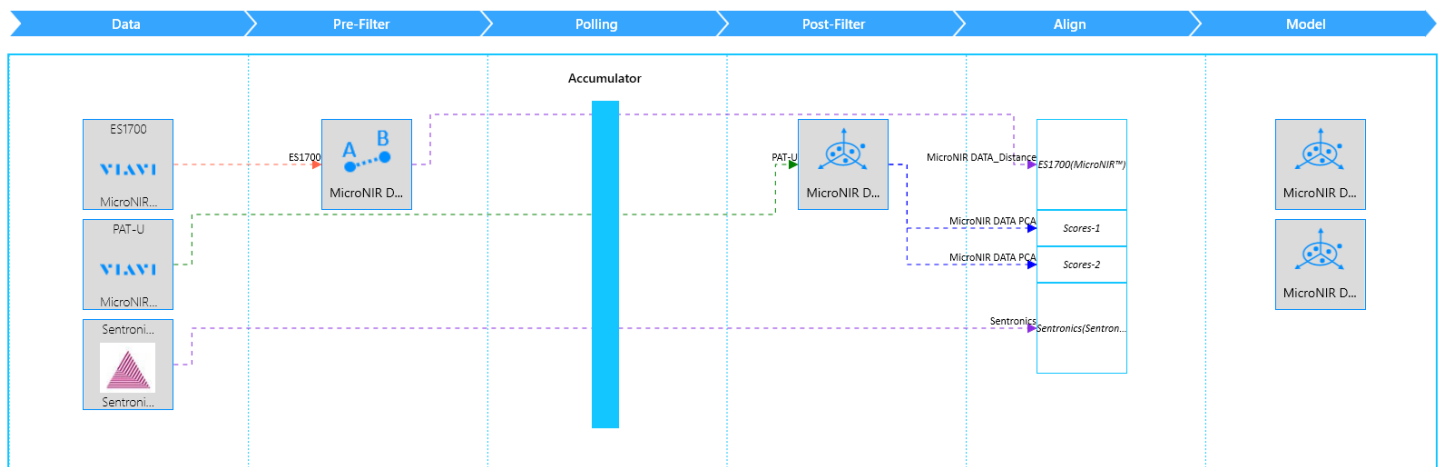
**Corrective Actions**

**Integration with Control Systems**

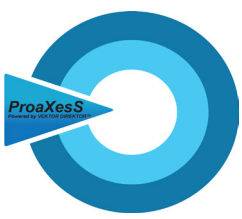
**Data Security and Integrity**

## Simple Data Alignment

**Align Multiple Data Sources using the Data Alignment System (DAS-Box)**



- **Simple Setup**
- **Define Polling Interval**
- **Reject Outliers**
- **Extract Important Information.**
- **Apply Models to All or Part of the Data.**
- **Define Complex Control Strategies.**



# ProaXesS

*Multivariate Process Monitoring and Control Redefined*

## System Requirements and Features

Supported Operating Systems	Windows 10 and 11 preferred (32 and 64 bit operating systems).
Memory	8 GB minimum.
Processor Specification	Intel i7 minimum.
Hard Disk Space	1 GB minimum.
Security	Windows Authentication, VEKTOR VAULT (optional).
Data Imports	ASCII (.csv), Proprietary Instrument Formats, OPC UA and DA, Direct Instrument Drivers, Database.
Security	Windows Authentication with Administrator, Developer and Operator levels of access.
Data Alignment (Optional)	User defined.
Database	VEKTOR DATABASE Proprietary Database Schema.
Data Visualisation	Line, scatter and control charts with limits and outlier detection.
Models	Principal Component Analysis (PCA) Projection, Partial Least Squares Regression (PLSR) Prediction, Multiple Linear Regression (MLR) Prediction, Distance Models (Outlier Rejection).
Statistical Process Control (SPC)	Run Charts with Limits and Traffic Light System.
Alarms and Warnings	Available for all models and sent as OPC tags.
Dashboards	Customised Dashboards Based on End User Requirements.

**KAX Group**  
*Multivariate Analysis with Direction and Purpose*

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