INDUSTRY PLATFORM 4.0

KLINKMANN

DREAM REPORT

Data Historian for collecting and converting industrial data into useful information with Klinkmann dashboards and ready templates.

AVEVA, Rockwell Automation, Schneider Electric and Siemens platforms compliant.

World leader
in industrial data processing

02

LOGS AND STORES
PRODUCTION DATA
INTO A DATABASE

FLEXIBLE SYSTEM
FOR CONFIGURING
REPORTS OF
**ANY COMPLEXITY
LEVEL**

INTERACTIVE
INFORMATION
PANELS
(DASHBOARDS)

TOOLS AND
TEMPLATES FOR
**IMPLEMENTING THE
MES FUNCTIONS**

+ More than 110 communication drivers for connection

to real-time data sources
to sources of accumulated historical values
to sources of historical alarms and events

+ Connection to SCADA systems

Communication with popular systems and their data archives:
InTouch, WinCC, Citect, FactoryTalk, StruxureWare, etc.

+ Protocols for communication with PLC

Rockwell Automation, Siemens S7, Schneider Electric, Mitsubishi and other equipment with open communication protocols: OPC, Modbus, ODBC, OLEDB, BACnet, SMTP, CSV, MQTT, etc.

+ Access to most Historian systems:

OSI PI/AF, AVEVA Historian, GE Proficy Historian, Influx, Yokogawa, Citect Historian, etc.

Connectivity to **various industrial data sources**

04

Integration with world brands of equipment and software

IOT

SCADA, HMI

DATABASES

DATA ARCHIVE

PLC

AVEVA

Rockwell Automation

Citect

SIEMENS

Historian

Schneider Electric

Modbus

Microsoft SQL Server

StruxureWare

Excel

PcVue Solutions

GE Digital

ORACLE

aspentech

OPC Unified Architecture

REAL-TIME VALUES

View added variables
Read real-time values
Value change events

HISTORICAL VALUES

View added variables
Open and proprietary databases
Use raw data as well as calculated values

HISTORICAL ALARMS AND EVENTS

Open and proprietary databases
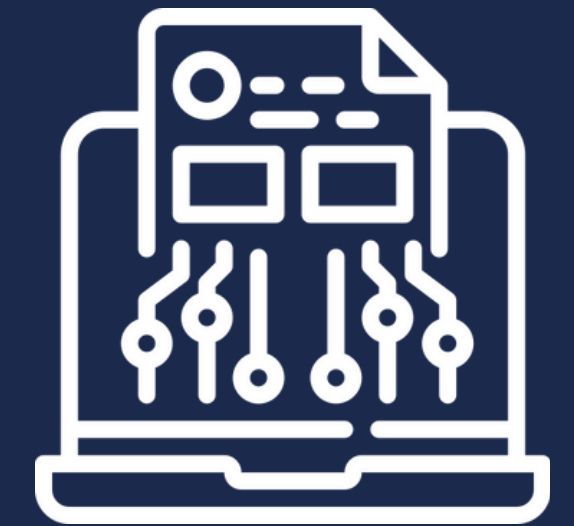Reading event and alarm properties
Filtering events by properties

Data Historian – logging and archiving

Data Historian to collect and store time - and event-series data from various sources around a process plant. It automatically logs process and production data and compresses it for more efficient storage.

+ Storing values to databases: MS SQL Server, Oracle, MySQL

+ Archiving is possible to local or remote database

+ Flexible setting of recording modes: by event, periodically, by time, etc.

+ Built-in archiving system with a performance of up to 400 values per second.

+ Ability to archive aggregated and calculated values

+ For example, the average for each hour, shift, day, etc.

+ Automatic limitation of the depth and duration of archive storage

+ Support for archiving redundancy

+ High stability

Dream Report industrial tasks

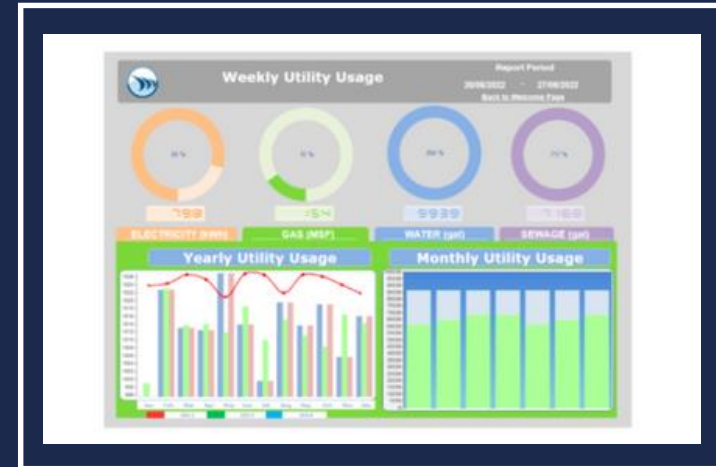## STATISTICAL PROCESS CONTROL

+ Support for all SPC functions
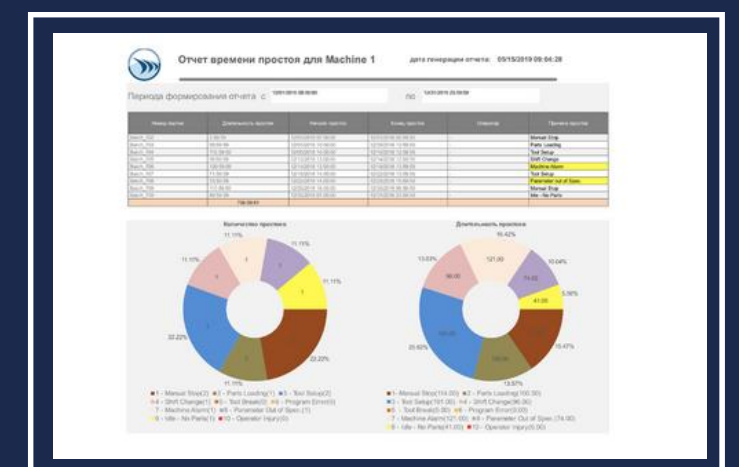+ Library of SPC objects
+ Statistical functions
+ Support of Nelson rules

ENERGY MANAGEMENT AND FINANCIAL ASSESSMENT

+ Complex calculation rules
+ Date and time tracking
+ Accounting for increased consumption
+ Total cost calculation

VALUE ANALYSIS

+ Tracking of settings during the execution of the technological process for compliance with the regulations
+ Flexible rules for checking values entered by the operator
+ Automatic validation of values entered by the operator

DATABASE DATA LOGGER

+Archiving real-time data into a database
+ Archiving of aggregated and calculated values into a database
+ Defining archiving rules for variable groups
+ Automatic database creation

Flexible reporting configuration system

BATCH REPORTS

+ Batch Management System

Batch information definition – ID, Start and End Time

+ Automatic report generation at the end (beginning) of the batch

Creating events to generate and send reports at the end or start of a batch
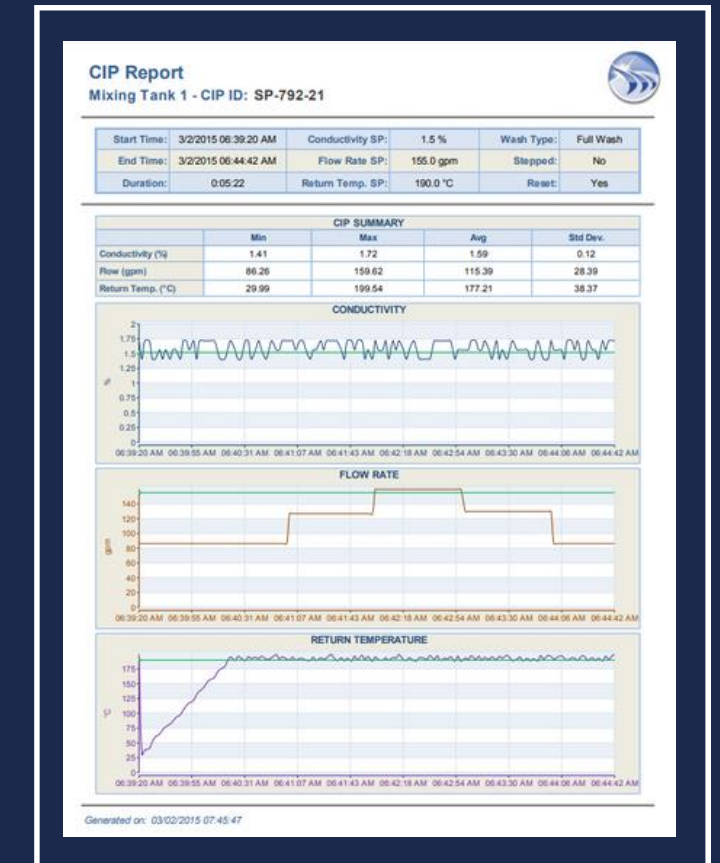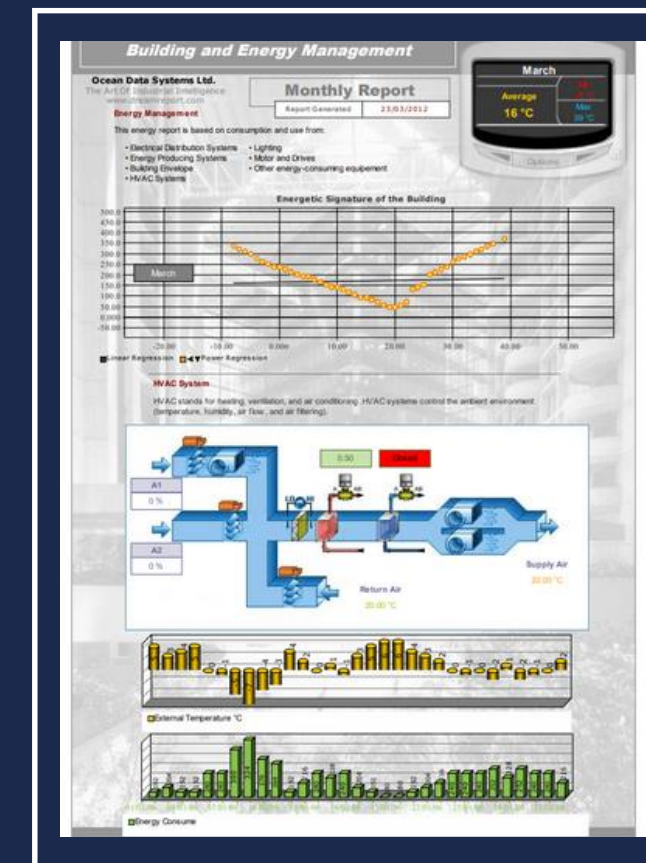
+ Automatic Batch ID assignment

**Batch information is stored based on
a selected or automatically generated**

Batch ID

+ Golden Batch

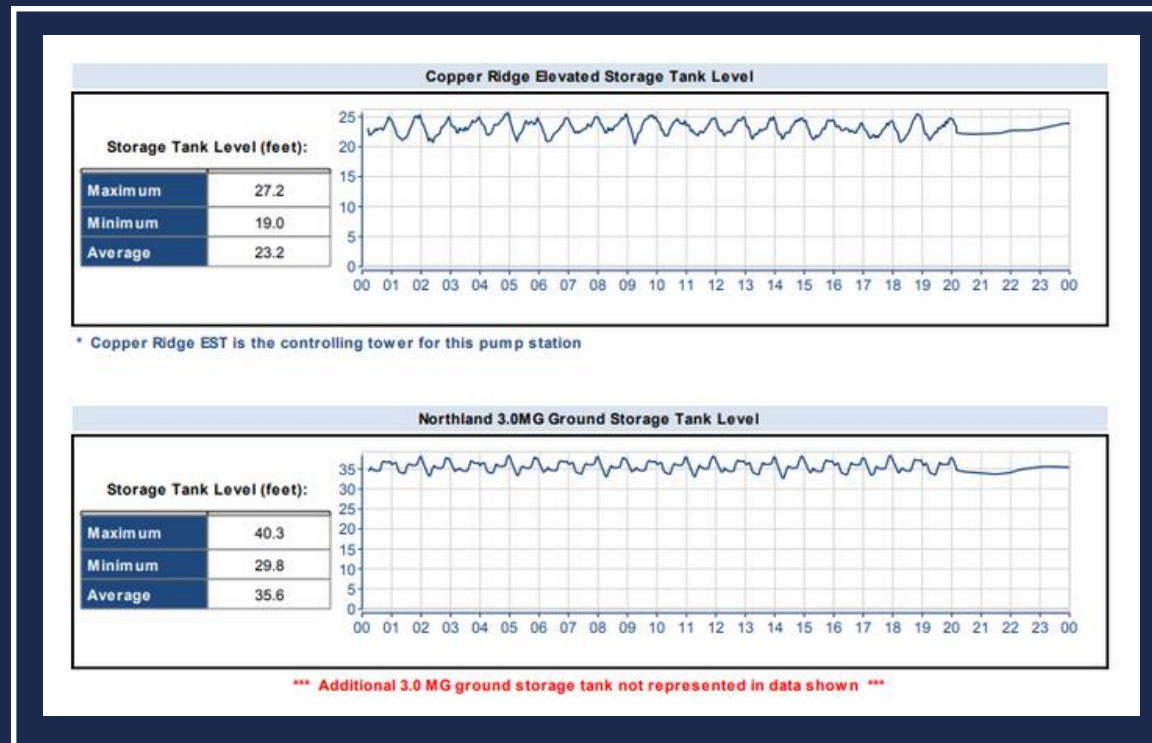Definition of the reference batch for comparison

+ Integration with standard and custom systems

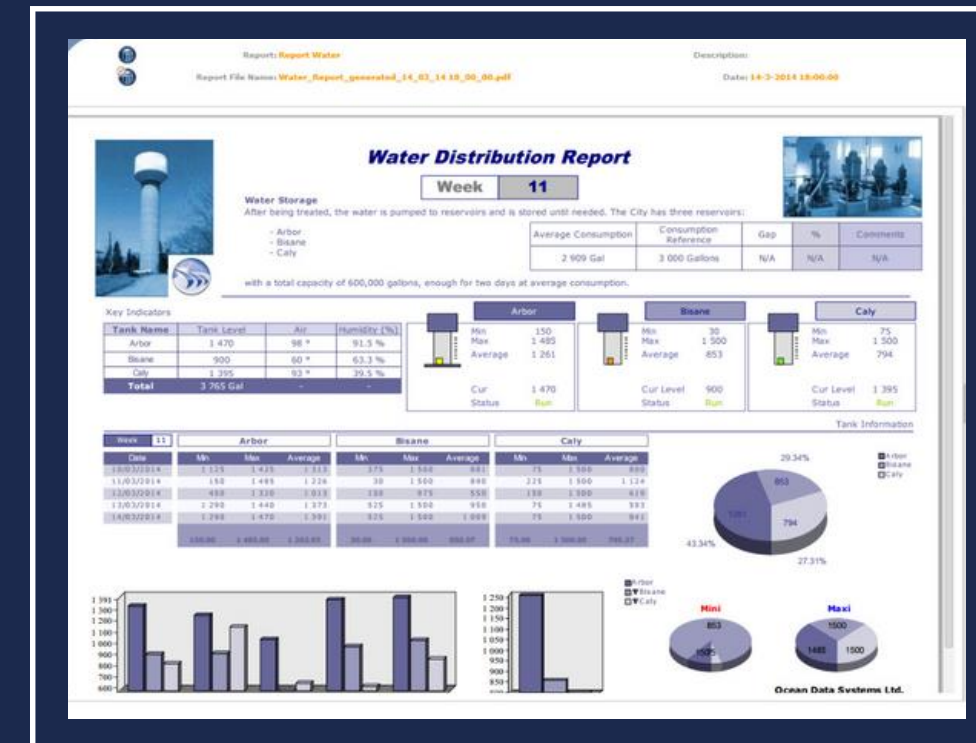SQL Server, Wonderware InBatch, Aspentech Batch 21, Emerson, GE, etc.

07

Built-in Calculation Functions

OEE, performance, downtime analysis

BUILT-IN FUNCTIONS
FOR CALCULATIONS

+ Equipment running time

+ System Availability

+ Production Efficiency

+ Downtime

+ Conditional Calculations

+ Counters

PROACTIVE MAINTENANCE
REPORTS

+ Report generation based on up-time

+ Report generation based on equipment running time

+ Automatic analysis of maintenance needs

Alarm reporting

+ **Alarm filtering**

  By source, area, operator, priority, status, etc.

+ **Alarm statistics**

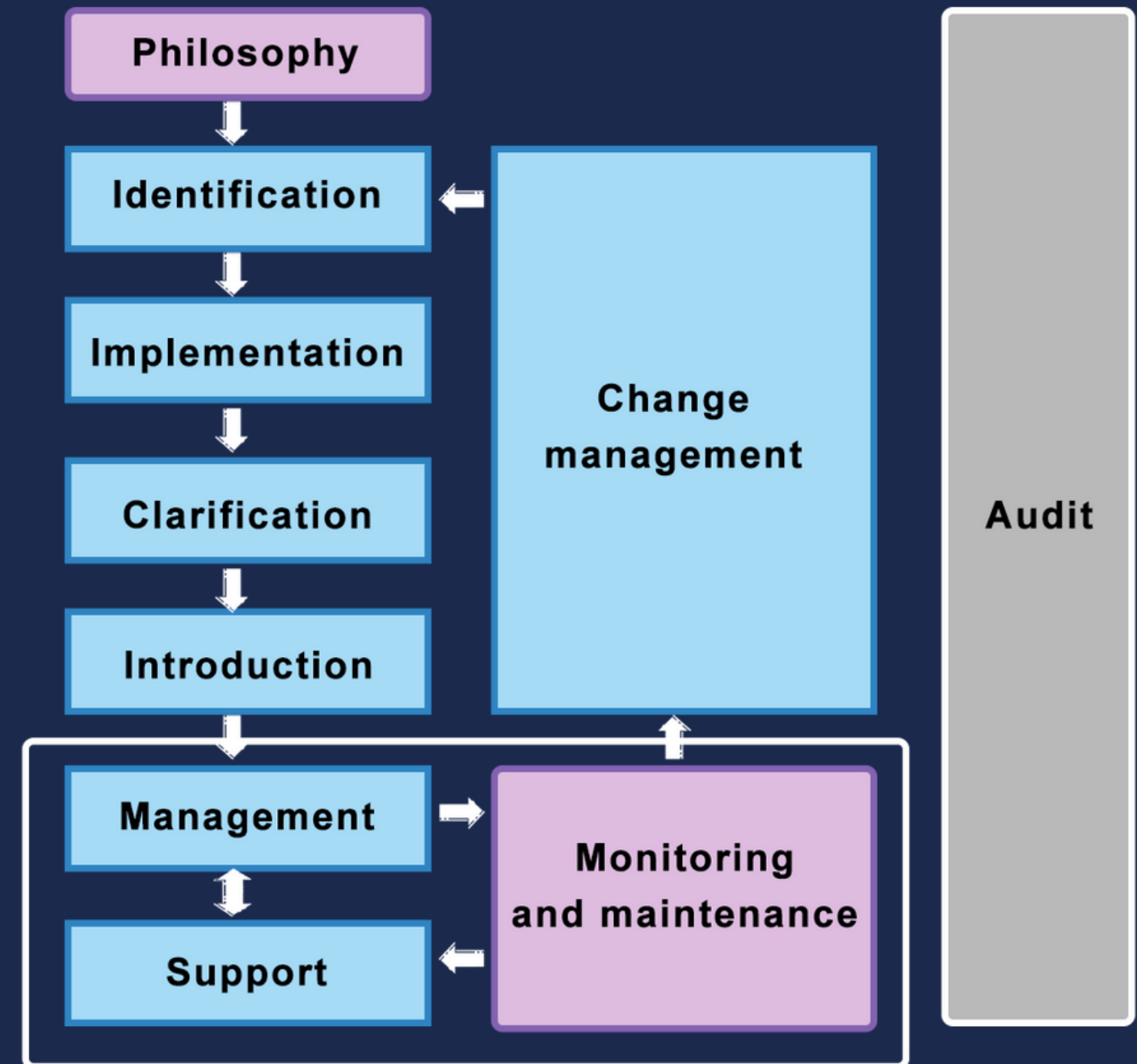 Create events to generate and send reports at the end or start of a batch.

+ **Alarm analysis**

  Duration, number of repetitions, solution time.

+ **Alarm reports**

  Report generation with the ability for distribution or archiving

+ **Automatic delivery of generated reports**

Interactive Web Portal

+ Open web technologies
HTML5, Java Script, compatible with all browsers

+ Administration
HTTPS, Restricted access by username

+ Automatic publishing of reports
Ability to generate a report in the required format

+ Dynamic Reports and Dashboards
Combo boxes, buttons, hyperlinks, check boxes, etc.

+ Slideshow
Generation and display of slideshows from reports

+ Dynamic URL and WebAPI
Report generation with external parameters

+ Manual data entry
Ability to check the correctness of the entered values
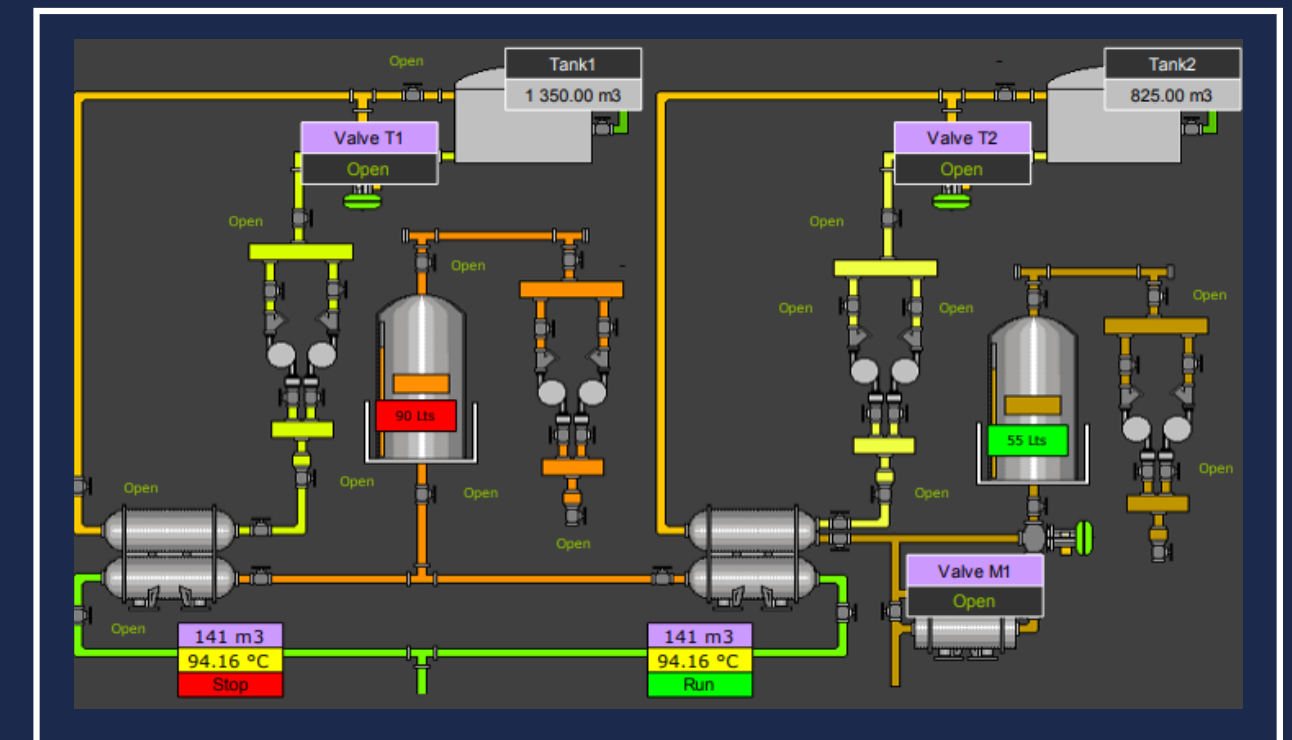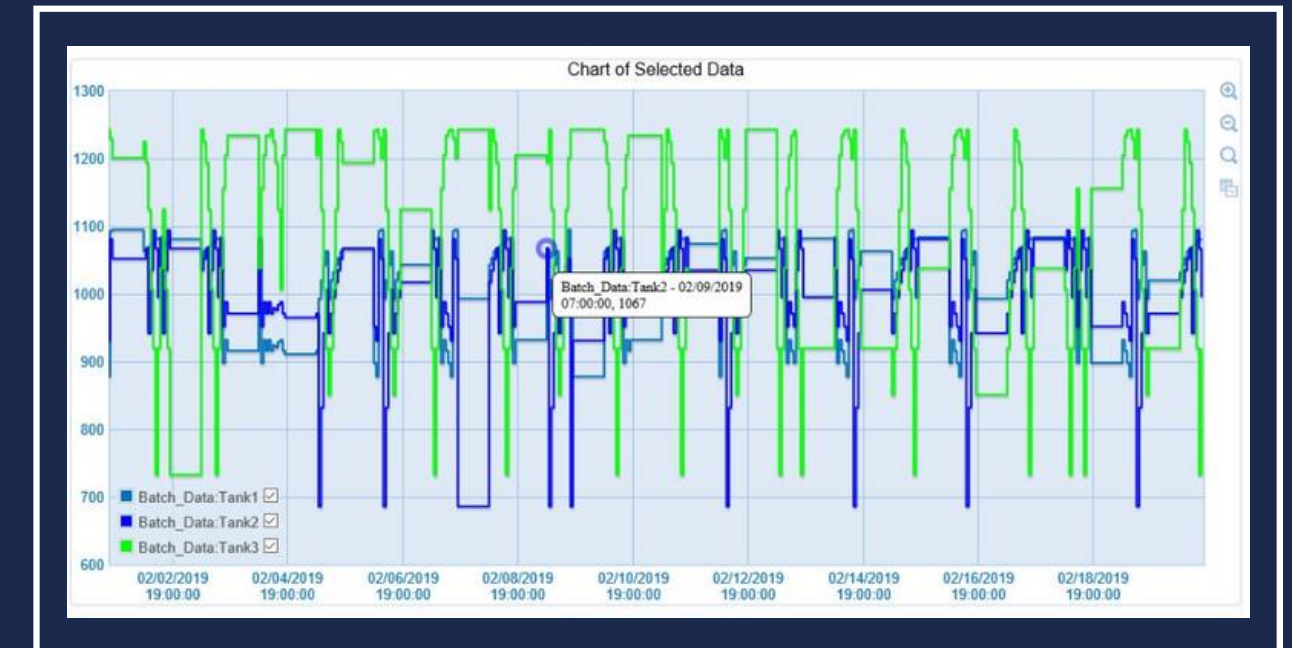Input restriction based on username

+ Accessibility on mobile devices
All functionality is available on Android and iOS

Tools for MES system
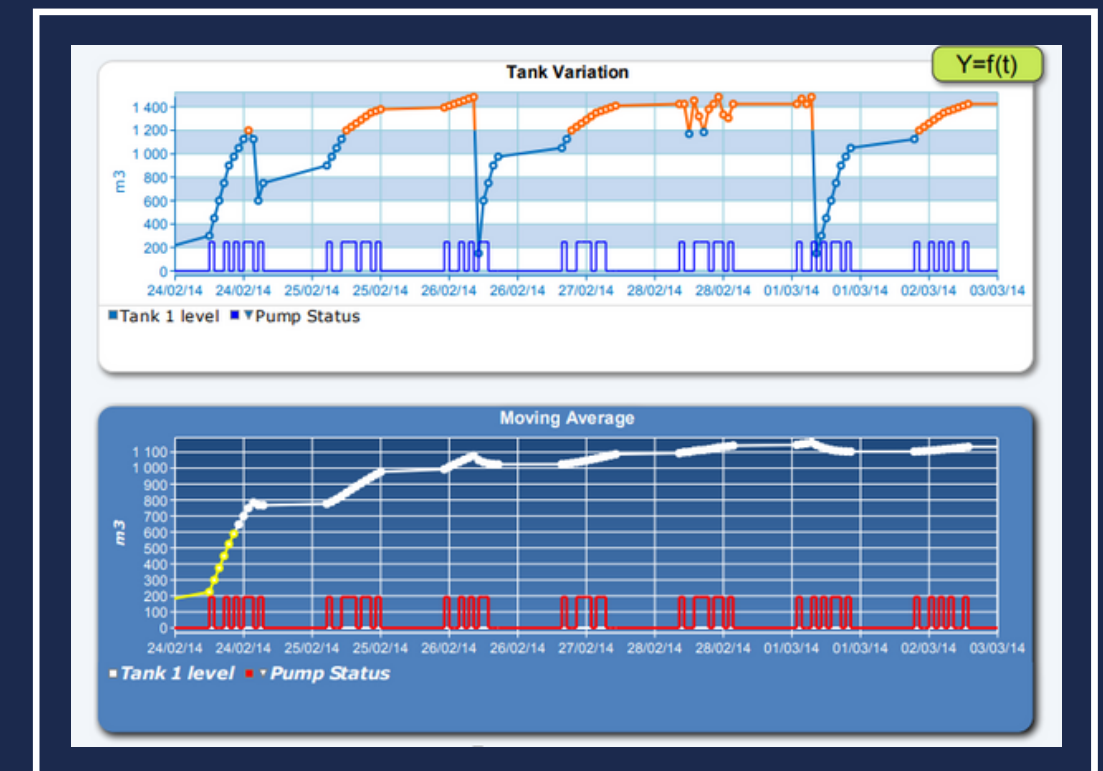
+ **Ability to build a MES system**
  for small and medium projects.

+ **Transparent integration with external databases**

+ **Convenient implementation of navigation between screens**

+ **A set of tools for building Web interface:**
  input fields, timestamp selection fields, drop-down lists,
  checkboxes, etc.

+ **Ability to manually record the entered data**
  to the database and their further use in reports

+ **Administration of access to reports and screens**
  for users and user groups

+ **Direct integration with reporting system and dashboards**
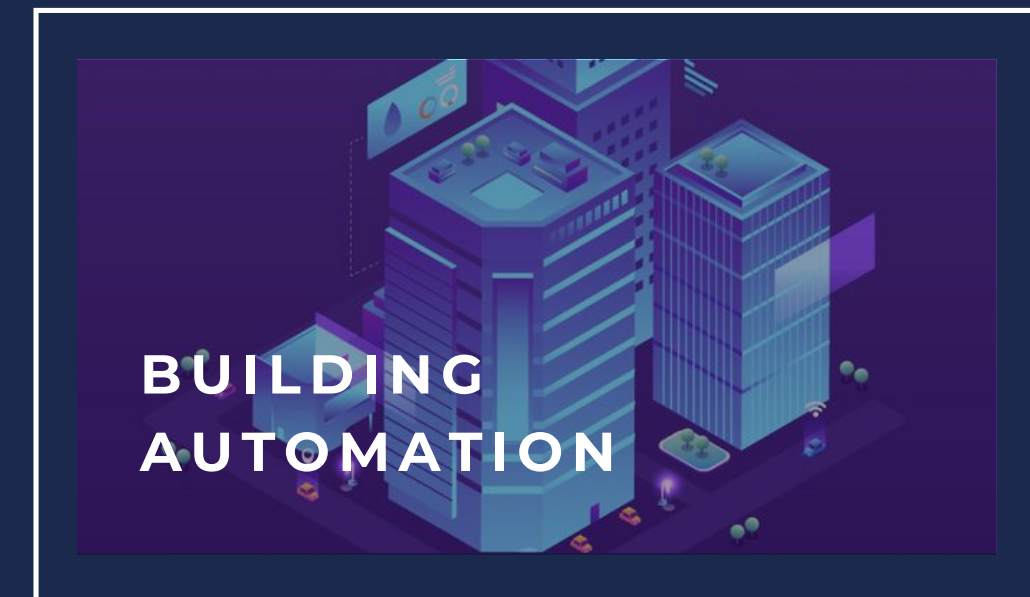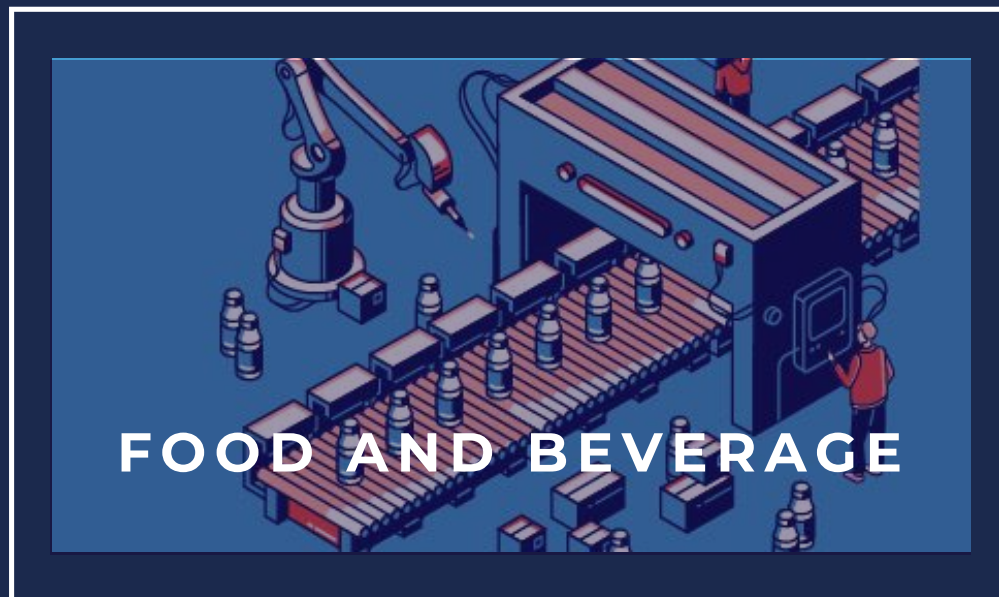
Dashboards

Full integration with the Web portal

+ Display any data
Dream Report in the form
of dashboards

+ Preinstalled template library

+ Filtering of displayed values
Web interface

+ Unique "2 in 1" solution:
Reports and Dashboards

Solution for industries

FOOD AND BEVERAGE

ENERGY AND POWER

MANUFACTURING

SMART CITY AND TRAFFIC

WATER AND WASTEWATER

BUILDING AUTOMATION

Dream Report does not have a narrow specialization, but a number of specific functions are provided for separate industries.

Data logging, storing and reporting

Optimal concept – fast and cost-effective digitalization projects

Klinkmann has a large customer base with Dream Report (Aveva Reports for Operations) as the Data Historian platform. Klinkmann supplied platforms support digitalization in all the main industries:

+ **power and energy**

+ **oil and gas, petrochemical**

+ **hydrogen and nitrogen production**

+ **mining and metal**

+ **food and beverage, agro**

+ **building management**

+ **ask more from Klinkmann**

Klinkmann specifies and consults the optimal concept for data management platform using various centralized and hybrid concepts – as is the best for each application and to allow future development. With the optimal concept, Klinkmann Partner companies and System Integrators make the project with optimal budget in the shortest time – ask more from Klinkmann.

Finesse Solutions

California, USA

Finesse Solutions (Thermo Fisher Corp) has 15 years of experience in the bioreactor and bioproduction systems, so the company perfectly understands all the needs of this market with fast development. Finesse uses Dream Report for analysis and reporting.

TPA is a long time Klinkmann Partner company making industrial IT-projects. TPA has established with the Dream Report platform, an application library to allow fast project making especially in Food & Beverage and Agro-industries.

"With the Dream Report based application library, we can use our long experience of the industrial best practices to improve reporting and operations in our industrial customers – to digitalize their production for modern data-driven operations. The ready Dream Report interfaces with all main PLC and other automation systems, allow fast project making and MES-performance operations in various industries", confirms TPA Director Mr. Alvydas Andrijauskas.
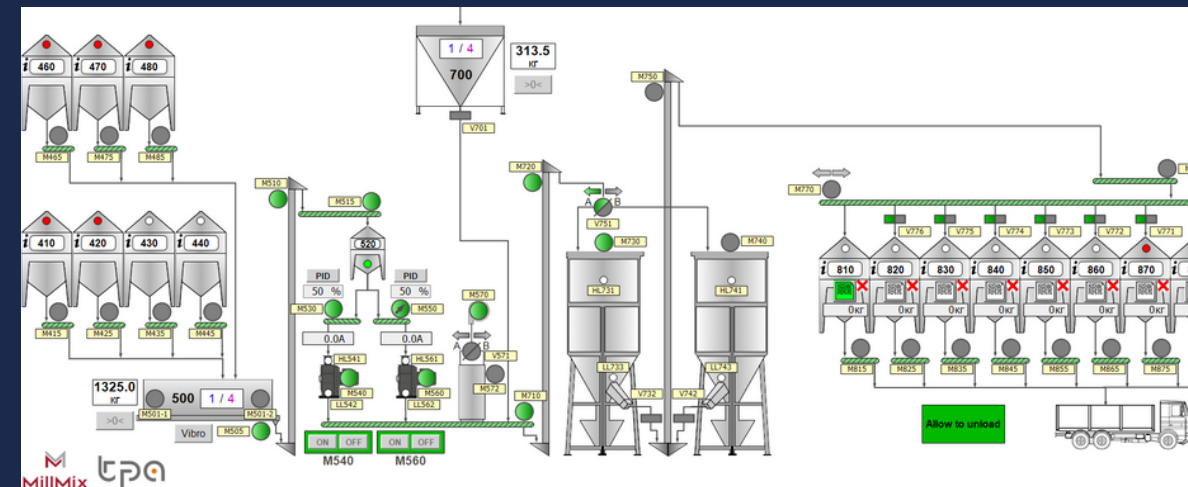

TPA (Lithuania)
Fast data management and production projects with Dream Report for various industries.

Ask more – ask a fast pilot

From Your local Klinkmann company in

Finland

Estonia

Latvia

Lithuania

Kazakhstan and Central Asia

Ukraine