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ConnectPoint for Twinings Swarzędz Supply Centre

Real-Time Production Monitoring



Twinings was founded in 1706 and is one of the oldest premium brands in the world. Twinings tea is available in 115 countries and is produced in three factories located in the UK, India and Poland. Between 30 and 40 tonnes of tea are made every day. The Polish factory in Swarzędz opened in 2011, and it produces 400 different kinds of Twinings tea.

Challenges of the industry

Twinings's needs were in line with the challenges faced by all manufacturing companies:

- increase in the efficiency of machinery and equipment (OEE),
- integration of automation systems with IT and business applications to create a single system for monitoring production in real-time,
- reduction production losses,
- flexible machine management to enable orders to be completed in less time.

Twinings Needs

Twinings has two main objectives:

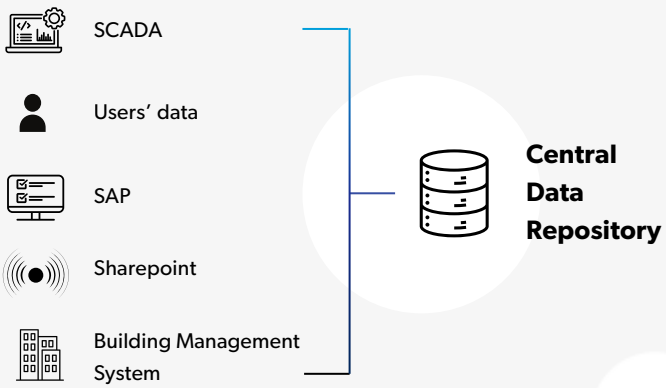
01. **Optimisation of machine conditions.** The need to create a central platform for monitoring and analysing machine data, that links IT and OT systems. Thanks to it, both the factory employees and the management receive information on how to handle the production better.

02. **Integration of production process(machines) with business systems.** Need to introduce the possibility to analyse correlations between orders (data, e.g. from the SAP system) and operational data to optimise production.

About Connectpoint

ConnectPoint offers IT solutions in the area of advanced data analysis for industry, energy and utilities. It specialises in IT/OT integration, i.e. management of the entire process of collecting, organising and analysing operational data. It builds systems that allow for effective cooperation between Operations, IT and Business.

Data collected from the machine to calculate OEE



Solution provided by ConnectPoint

ConnectPoint developed a Central Data Repository for Twinings, based on the AVEVA PI system. Data from distributed sources, such as production lines, SharePoint, external Excel, SAP, building management systems were integrated into one place. Such a solution enabled advanced analyses, real-time production monitoring and calculation of efficiency indicators in various aspects.

Benefits of implementation for Twinings

In a brief period (less than four months), Twinings received a system that ensures real-time monitoring of the entire production process, and in particular:

- quick calculation of machine performance in different contexts,
- reporting in real-time to management meetings,
- control of short production cycles with regard to the efficiency of machine use and production losses,
- details of the correlation between actual production and business activities