

ProLeiT Presentation Abstract

Smart Processes - How Industry 4.0 and Big Data make production processes more transparent, secure and cost-efficient

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Turning traditional factories into Industry 4.0 smart factories will result in significant changes to the way the milk and whey industry operates: business processes respond dynamically to changes in the market, while production techniques adapt automatically to ensure an appropriate balance between cost, quality and environmental impact.

The resulting data contains essential information. Be it production or plant data – if collected, managed and analysed correctly, the massive potential in data can be unlocked and guarantee the success of a company. Enhanced productivity through optimization is one of the first goals of Industry 4.0 projects. In other words: saving costs, increasing profitability, reducing waste, automating to prevent errors and delays, speeding up production to work more in real-time and in function of the overall value chain, where speed is crucial for everyone, digitizing paper-based flows, being able to intervene faster in case of production issues and so forth.

But as attractive as the opportunities provided by big data may be, it brings many new challenges for a company, since more data is usually generated than anyone can analyse and interpret manually.

ProLeiT presents a number of examples to show how mass data needs to be prepared in order to be evaluated correctly. Furthermore, it will be illustrated what intuitive and trend-setting operation may look like and which added values plant operators can expect from mass data evaluation.