

Bühler Insights: Get the best out of every process – 24/7

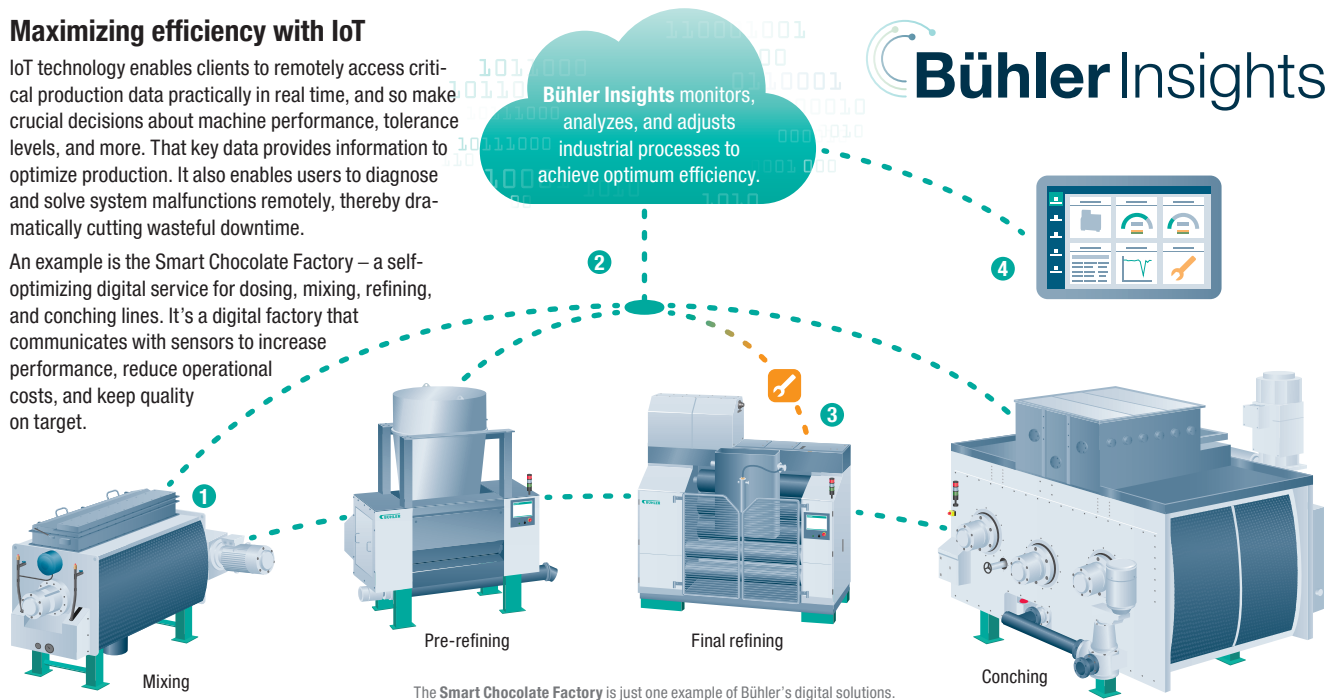
The Internet of Things (IoT) helps manufacturers reach new levels of productivity. With the Bühler Insights platform, every machine in your plant can run as if your best operator is on the job around the clock.

TEXT: STUART BASHFORD

Maximizing efficiency with IoT

IoT technology enables clients to remotely access critical production data practically in real time, and so make crucial decisions about machine performance, tolerance levels, and more. That key data provides information to optimize production. It also enables users to diagnose and solve system malfunctions remotely, thereby dramatically cutting wasteful downtime.

An example is the Smart Chocolate Factory – a self-optimizing digital service for dosing, mixing, refining, and conching lines. It's a digital factory that communicates with sensors to increase performance, reduce operational costs, and keep quality on target.



Bühler Insights explained in four steps:

Step 1 Monitor and gather

Sensors monitor the production process and gather valuable data. Smart sensors enable the quality of the process to be measured. Measuring the quality of a process is essential to maximizing potential.

Step 2 Send data for analysis

The sensors send data to Bühler Insights for analysis and visualization. Bühler draws on its 150 years of process know-how to derive real value from the collected data, ensuring optimal efficiency.

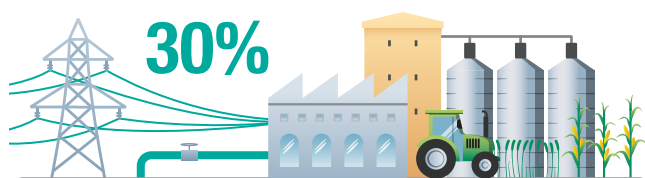
Step 3 Optimize processes

Depending on the digital service required, Bühler can optimize production processes in real time – it is like having your best, most experienced operator at your production line at all times.

Step 4 Customized information

The complete analysis is displayed on a dashboard. It can be viewed in the control room of a factory, on a computer or tablet. Users can customize the information they need based on their specific requirements.

Optimized production reduces energy consumption and waste



The food sector accounts for over 30% of global consumer energy demand and produces over 20% of global greenhouse gas emissions, according to the Food and Agricultural Organization. On top of that, one-third of the food we produce – and the energy embedded in it – is lost or wasted. Bühler's digital solutions will help customers reduce waste and energy, and optimize efficiency and quality.



Bühler's 2020 goal is to help its customers reduce energy consumption and waste by 30%. Bühler Insights is a key enabler for achieving these targets. With real-time monitoring and control, even the most modest benefits can accumulate into substantial gains over the course of a year. We are currently developing over 50 digital services – and this is just the beginning.

Infographic: Michael Stünzi Sources: Food and Agricultural Organization issue paper: "Energy-Smart Food for People and Climate". Bühler Group.

Innovations for a **better world.**

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