



Smarten Up Your Factory

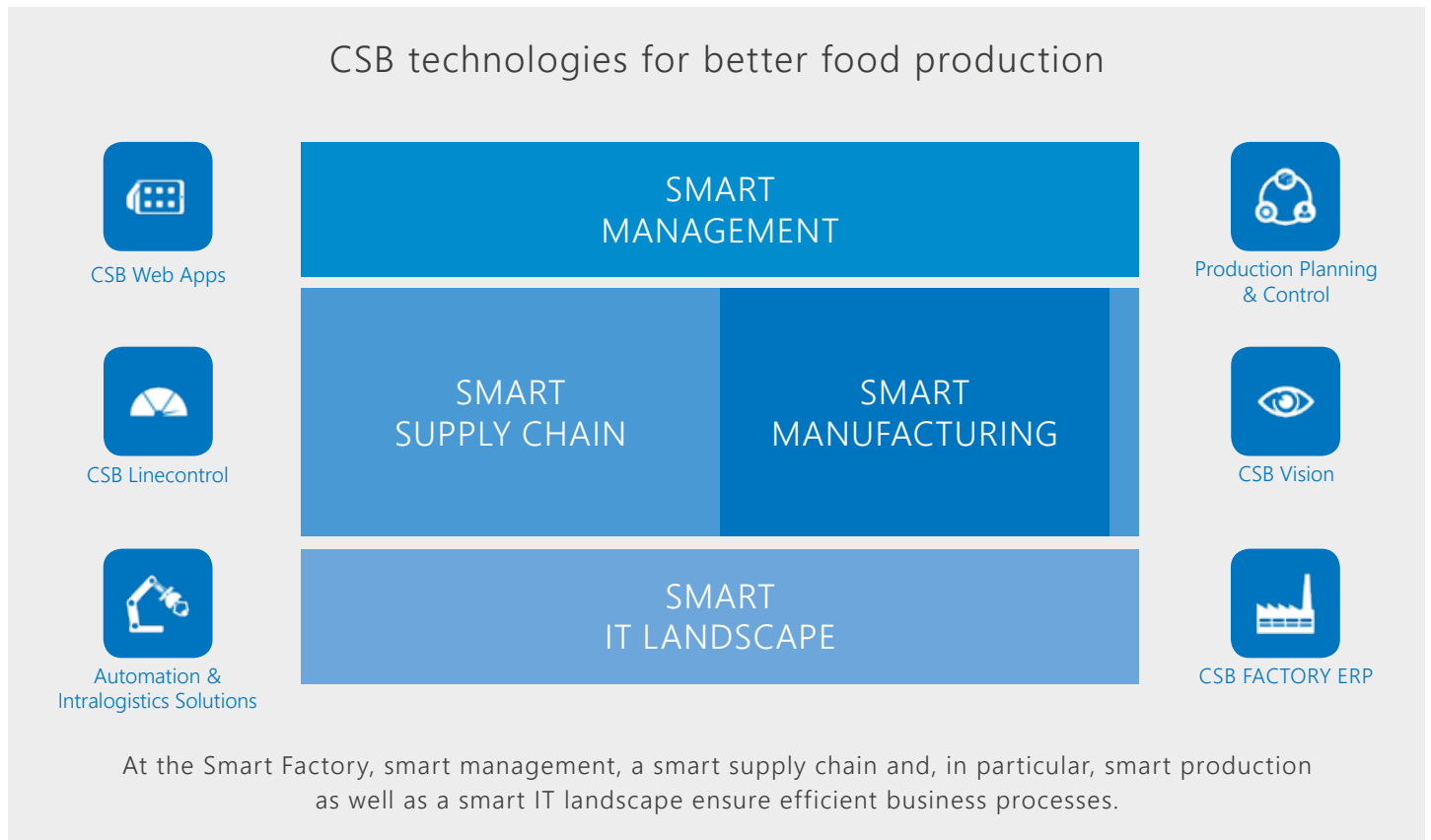
CSB Technologies for Better Food Production

- Advance factory control through added transparency
- Standardize product quality and reduce costs
- Industry 4.0 ready – Enhance digitization and automation of factory processes

Smarten Up Your Factory – with the technologies by CSB.

Digital transformation is in full swing. Also in food production, the Internet of Things (IOT) and Industry 4.0 facilitate consistent digitization, networking and, as a result, control based on reliable data in real time. The Smart Factory has many advantages: Flexibility, full transparency, individualization and maximum efficiency. This helps to increase productivity and reduce costs. The Smart Factory is not a mere vision. With

CSB's technologies, you utilize today the benefits of digitization and make your enterprise fit for the future - from smart management to the smart supply chain and, particularly, smart production, and to the smart IT landscape. We support you with our comprehensive portfolio of software, hardware, consulting and services from a single source. This is how you smarten up your production - now and in the future.



CSB Web Apps: Know what's going on, anytime and everywhere.

Having a clear view of strengths and weaknesses in the value chain is the key to successful corporate control. Here, it is important to measure the performance with precise figures and to increase it systematically, for example by optimizing production. Use the CSB Web Apps, for instance, to access your CSB-System when you are on the move. Call up key data and reports on your notebook, tablet or mobile phone to get a clear overview.



Production planning and control: Manage complexity and cut costs.

In the food industry, the focus of production planning and control is on unit diversity, freshness and throughput speed. Mastering bottlenecks, availability and value of resources is vital. CSB Production Planning and Control handles this highly complex task for you. Anticipatory planning over various planning horizons, such as short-, mid- and long-term

planning, provides an overview of all volumes to be produced as well as the capacity utilization of your departments and machines. Throughput times are accelerated while inventory stocks are reduced. Consequently, you reduce production costs substantially, and you can schedule and fulfill even short-term orders in a flexible manner.

CSB Linecontrol: Optimal control of production and packaging lines

CSB Linecontrol provides all data on the current capacity utilization and performance of your machines in real time – directly at the line, but also on the screen of production management. Bottlenecks and malfunctions in the production and packaging lines are visualized immediately. This allows for quick and systematic troubleshooting. Unplanned down-times are reduced, keeping the overall equipment effectiveness (OEE) on a constantly high level.



CSB Vision: Your factory can learn to see.

The industrial image processing technologies of CSB Vision grade and sort raw materials and products with regard to their quality, allowing for ideal supply to production entirely in line with Industry 4.0: Fully automatically, and without any need for human intervention. While tests performed by humans are prone to errors, the fully automatic analysis

and assessment methods guarantee constant and objective quality measurements. This reduces error rates and costs, enhances quality and increases the added value. At the IFFA 2016, CSB Vision won the Fleischerei Technik Award for the best innovation in the "Automation" category.

Automation and intralogistics solutions: Smart. Efficient. Integrated.

From intelligent material flow control to flexible, fully automatic order picking and control of high-bay warehouses and batching systems: our tried and tested solutions for consistent system integration and unlimited mobility ensure seamless data acquisition directly at the point of origin.

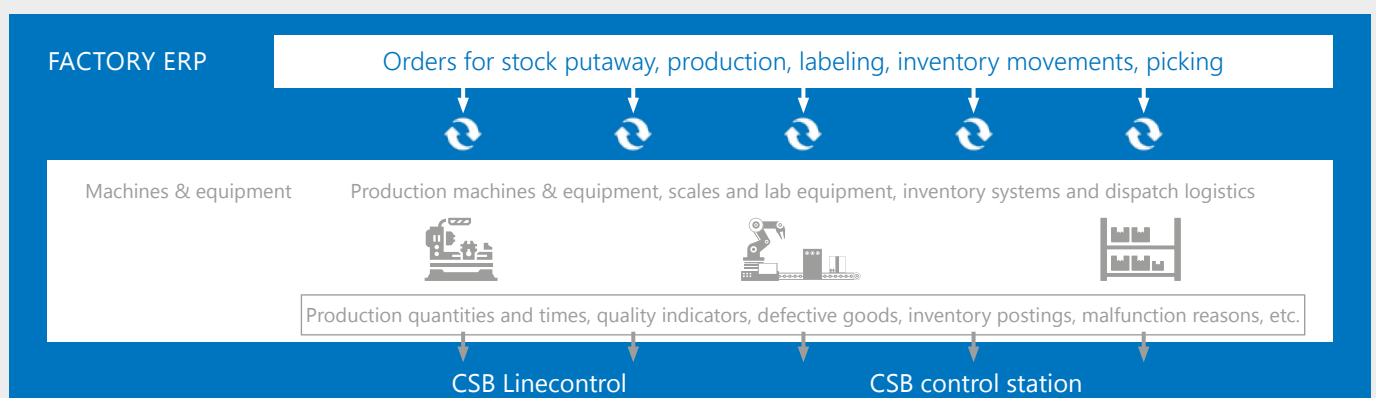
The information and control technology, which is precisely tailored to your needs, ensures transparent and resource-optimized processes. Combined with state-of-the-art automation technology, this results in efficiency advantages that create the decisive competitive edge for your company.

CSB FACTORY ERP: The Factory Software of the Year 2018 at the heart of the Smart Factory.

With the CSB FACTORY ERP factory software, you benefit from an industry-specific ERP system for optimum operational control of your factories. CSB FACTORY ERP consistently represents the entire primary value creation of production and logistics in the industries for food and beverages, chemicals, pharmaceuticals and cosmetics. You can easily identify weak points at your factories, enhance the responsiveness on site

and substantially reduce the overall costs. CSB's FACTORY ERP system has received the Factory Software of the Year 2018 award by the Industry 4.0 Application Center of the faculty for business information management, processes and systems at the University of Potsdam. The jury particularly commended the software for its comprehensive range of functionalities.

Use CSB FACTORY ERP to control machines & systems directly via standardized interfaces



Smarten Up Your Factory. Your advantages:



Reduce your costs:

With CSB's technologies, processes become faster, your supply chain more agile, and resources are used more efficiently.



Ensure transparency:

CSB's technologies link all areas of your factory in a digital network with a consistent data basis.



Enhance the quality of your products:

The automated quality control with CSB Vision provides accurate measurement results and reduces the error rate.



Increase efficiency:

With CSB Linecontrol, you optimize capacity utilization and performance and increase OEE.



Better control over your factories:

CSB FACTORY ERP covers all vital core processes industry-specifically in one system.

CSB's technologies in operation worldwide

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