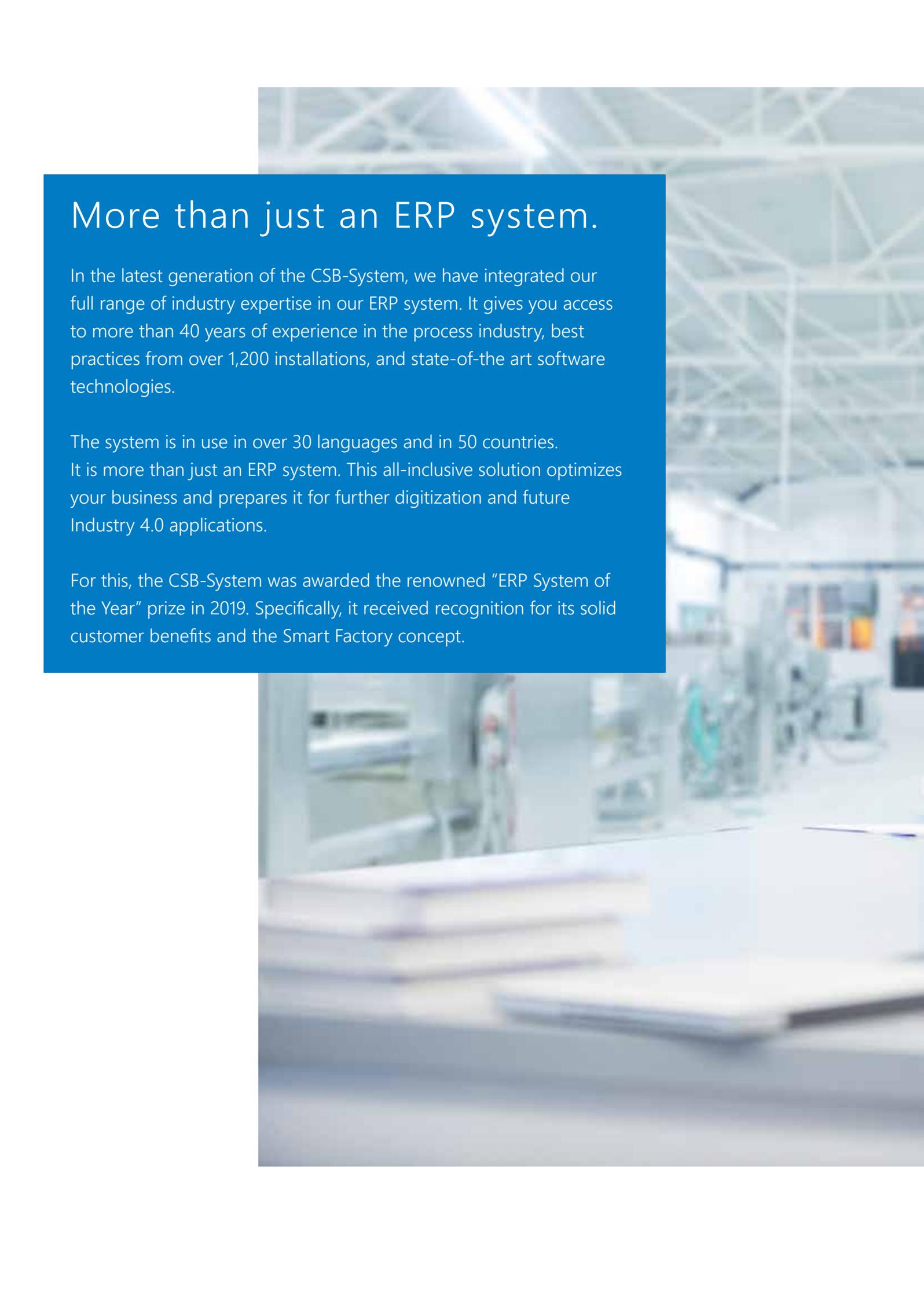




The CSB-System

Tailored specifically for my company

- One hundred percent industry-specific and seamlessly integrated
- Forward-thinking and Industry 4.0 ready
- Upward compatible and release-capable



More than just an ERP system.

In the latest generation of the CSB-System, we have integrated our full range of industry expertise in our ERP system. It gives you access to more than 40 years of experience in the process industry, best practices from over 1,200 installations, and state-of-the-art software technologies.

The system is in use in over 30 languages and in 50 countries. It is more than just an ERP system. This all-inclusive solution optimizes your business and prepares it for further digitization and future Industry 4.0 applications.

For this, the CSB-System was awarded the renowned "ERP System of the Year" prize in 2019. Specifically, it received recognition for its solid customer benefits and the Smart Factory concept.



Better utilize your data with the ERP System of the Year.

It is quite simple. Successful companies better utilize their data. With our CSB-System, we advance the digitization and optimization of your value chain. Standardized KPIs are measured throughout the company. Quality and process data is captured automatically. Production data is utilized to maximize the labor productivity. Plus, the managers always have full transparency of what is going on in all business areas.

Programmed industry expertise.

Traceability, quality management, image processing (Vision), integration of trade, management of complex conditions up to recipe optimization and milk payment statement: The CSB-System has been specifically designed for the food and

beverage, chemicals, pharmaceuticals and cosmetics industries as well as for the trade sector. It is able to meet all industry-specific requirements – in one integrated system.



Meat

Livestock management, slaughter planning, cutting optimization, proof of origin, traceability and much more ...



Fish and seafood

Fishing, fish farming, processing, paperless picking, freight management and much more ...



Bread and bakery products

Controlling from the central bakery to the subsidiaries and in-store bakery stations and much more ...



Beverages

Recipe optimization on the basis of targets such as juice content, Brix values, degrees Oechsle and much more ...



Dairy Products

Milk entry, milk payment statement, soft cheese optimization, QM fat balance and much more ...



Delicatessen

Coverage planning and scheduling of resources, materials and capacities for efficient delicatessen production and much more ...



Fruit and vegetables

Producer clearing, vendor assessment, sales and picking, dispatch and much more ...



Confectionery

Procurement specifically geared to the confectionery industry, coverage planning, scheduling and much more ...



Chemicals

Research and development, hazardous material management, controlling and much more ...



Pharmaceuticals

Quality management, laboratory information system, validation and much more ...



Cosmetics

Full traceability, hazardous material management and INCI declaration and much more ...



Trade & Logistics

Wholesale logistics with refinement processes, fresh products logistics, multichannel sales and much more ...

A safe investment.

Your customers' demands are growing, and so are your requirements. Your organization is growing. Complexity is growing. CSB has solutions that cover everything that you need. Solutions that integrate innovations while growing organically with your business. It offers modules for all areas of your company. This allows you to systematically introduce

the functionalities that offer you the most benefits. Flexibly and in the steps you decide. The CSB-System can be used internationally across locations and countries. This does not only ensure a smooth expansion, but also secures your investments.

Benchmarking the efficiency of the CSB-System against vendors of standard company-group ERP systems

In a benchmark study on the performance and cost structure in the process industry, the University of St. Gallen investigated whether gains in IT effectiveness and efficiency can be expected by using the CSB-System in comparison with a standard business management ERP system for company groups. These are the results:

Sales per capita up 420 percent with the CSB-System

The CSB-System provides the IT staff with the means to achieve an increase of 420 percent in the sales per capita. The companies with a standard company-group ERP system need more than one IT employee to support a staff of 100 people. Companies using the CSB-System are able to support 244 employees with a single IT employee.

Higher coverage, no stand-alone solutions

The coverage and the scope of the CSB-System are substantially higher than the functions in the standard company-group ERP system. The users of standard company-group ERP had, on average, three additional stand-alone solutions in use. Moreover, the values for operational efficiency and effectiveness determined for the industry-specific system were higher than in the competitor's product. A comparison of the qualitative statements on the two ERP systems confirmed the conclusion that the CSB-System achieves a higher degree of acceptance than the standard ERP solution with stand-alone solutions and the related interfaces.

License to success.

The CSB-System stands for quality. Numerous certificates and quality labels not only assure our quality, but also ensure reliable processes in your company.

The certified and multi-award-winning CSB-System plays a central role. The CSB-System has been awarded the "ERP System of the Year 2016 and 2019" and the "Factory Software of the Year 2018" prizes as well as the "Fleischerei Handwerk Award 2019". In addition to its software, CSB offers excellent hardware.

The CSB Vision product line, which received the "Fleischerei Technik Award" at the IFFA trade show in 2016, has been developed to optimize the use of raw materials. The fully automatic analysis and assessment procedure uses cutting-edge image processing technology to improve the quality of end products and to increase the value added.

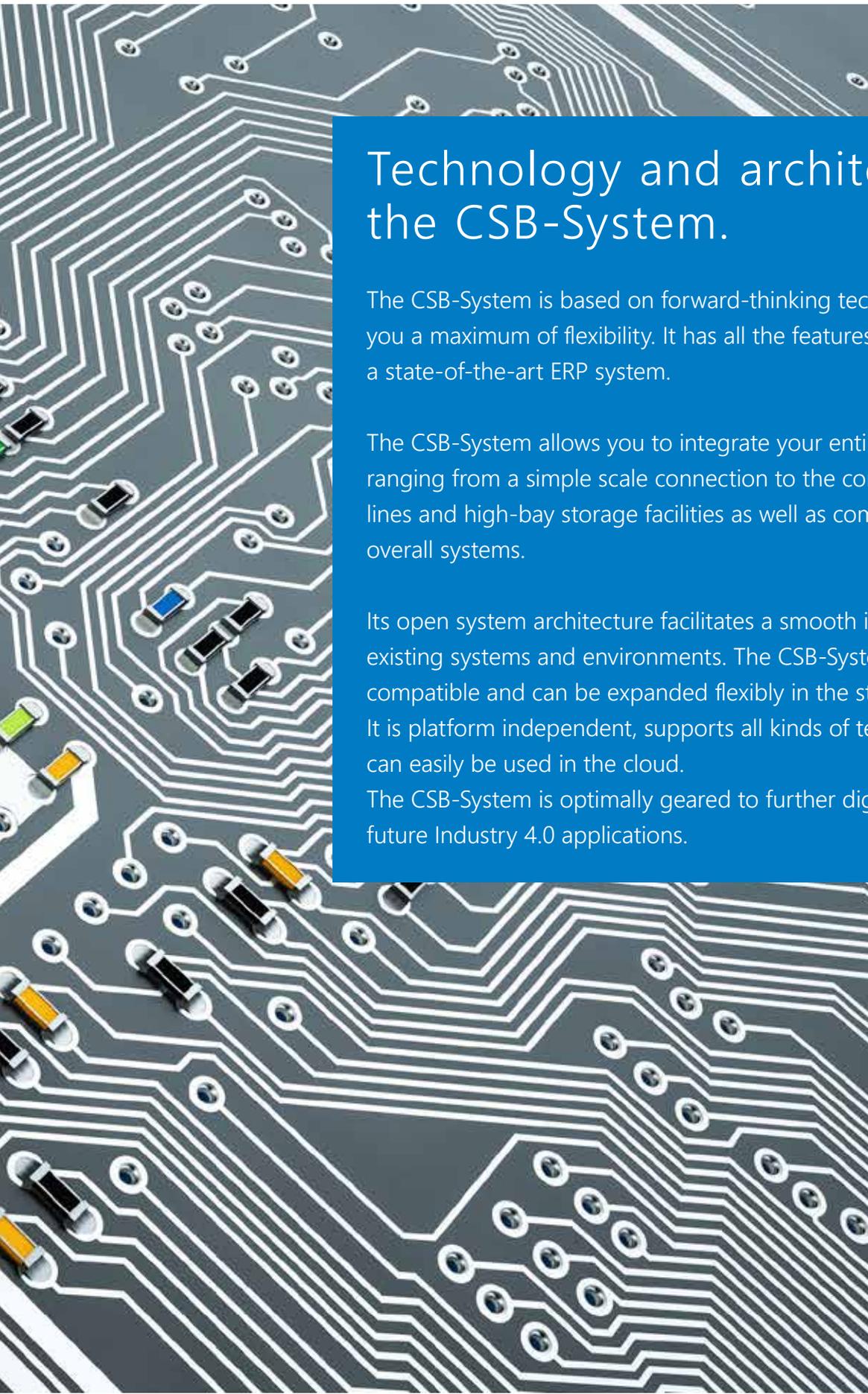


Legal compliance for our customers.

We provide our customers with a compendium for legal compliance with the corresponding procedure instructions

online. It supports internal quality management but also auditors.





Technology and architecture of the CSB-System.

The CSB-System is based on forward-thinking technologies that offer you a maximum of flexibility. It has all the features that are essential in a state-of-the-art ERP system.

The CSB-System allows you to integrate your entire intralogistics, ranging from a simple scale connection to the control of production lines and high-bay storage facilities as well as complex logistical overall systems.

Its open system architecture facilitates a smooth integration in existing systems and environments. The CSB-System is upward compatible and can be expanded flexibly in the steps you decide. It is platform independent, supports all kinds of terminal devices, and can easily be used in the cloud.

The CSB-System is optimally geared to further digitization and to the future Industry 4.0 applications.

Smart technology and architecture for more flexibility.

With the CSB-System, our customers transform any grown IT infrastructure into a homogeneous information landscape. The open architecture enables perfect integration – even in existing systems and environments.

The integration of internal logistics, from the simple scale connection and the integration of mobility to solutions for the control of packaging lines and high-bay storage facilities as well as complex logistical overall systems demonstrates the high degree of integration and automation of the flexible CSB-System. This ideal symbiosis of all business divisions and sites, logistics and process peripherals in one efficient

corporate management system supplied by a single source is unrivaled in the market.

In order to ensure that the CSB-System is able to respond fast and flexibly to the market requirements, we rely on a clearly structured and flexible software design, the use of standard software, as well as the use and support of service-oriented architectures.

| | |
|--|---|
|  CSB-SYSTEM | Browser applications: Angular, CSS, SASS, HTML5, JavaScript and TypeScript |
| | Database layer for SQL (MS/Oracle): CSB DBXS via ADO/ODBC |
| | Intralogistics processes: EBS (event-based technology) |
| | BI applications: C# and QT |
| | Business logic and user interface: CSB.NET, C# , C and C++ |

One system, many platforms.

The CSB-System supports data management with Oracle and SQL Microsoft. The database solutions are scalable. Windows or Android are used as front-end operating systems.

For the process peripherals (for example, scanners, scales, conveyor belts, high-bay storage facilities, silo systems, etc.), our proprietary control systems ensure that our customers always remain compatible with their existing investments. All intralogistics processes are integrated with cutting-edge EBS technology (Event-Based Service). The advantage of EBS

is that it allows a standardized project implementation, and it is manufacturer-independent for all hardware vendors. From a classic desktop, laptop or mobile phone to special clients such as hand-held devices, CSB racks or cash till systems: You can freely choose the terminals for your ERP processes while you can access all relevant information in real time. This is the basis for sound decision-making, increased processes efficiency and enhanced flexibility in process control.

One software system for all business areas – modular and scalable.

The CSB-System establishes a coherent data basis for all departments. As the data management system, it administrates master data and transaction data as well as product, machine and process data, without any redundancy. This results in the consistent use of the data in all areas.

All business units are linked to each other; all information is available across all areas. This improves the transparency, the flow of information, and the communication.

The CSB-System as an all-inclusive solution provides for all areas of the value chain in our target industries – vertically and horizontally. Given the modular structure of the all-inclusive solution, our customers can introduce the functionalities that offer them most added value. Flexibly and in the way they want it.

Upward compatible since 1985 – and in the future.

The CSB-System is developed continuously. All requirements are fully incorporated in the standard version. Our solutions are upward compatible, beyond releases and versions. In regular two-month cycles, we provide a release with the latest improvements of the CSB-System. In the case of legal changes in the CSB-System, you will receive a separate software update.

Additionally, improvements and patches are made available on an individual basis. For this purpose, you obtain personal access to the CSB Online-Portal. Release changes are largely automated so that the latest version of the CSB-System is operational within a few hours – even in the case of customer-specific system extensions.

All requirements are incorporated in the CSB-System.
All improvements are upward compatible.



Market requirements



Legal requirements



Customer requirements



Internal CSB requirements

Logistics as an integrated process.

The CSB-System is more than just an ERP system. With the CSB-System, you integrate all process peripherals along the entire information and material flow. From intelligent material flow control to flexible, fully automatic order picking and control of high-bay storage facilities and batching systems: Our tried and tested solutions for a consistent system integration and unlimited mobility ensure seamless data acquisition directly at the point of origin.

The software is at the heart of it all. It ensures maximum productivity of the machines in use and automatic access to all data of your facilities. A clearly structured control station visualizes the current state of machines and production facilities at all times. The information and control technology, which is exactly tailored to your needs, ensures transparent and resource-optimized processes.

Software from the cloud.

The CSB-System is also available as a cloud version. Our ERP hosting comprises all services, from standardized updates to location-independent consulting. The full service of the CSB Cloud is available to our customers worldwide. The CSB

Cloud Service Center offers permanent high availability as well as certified security for all IT services. Possible infrastructures:



Client
Server



Client
Terminal Server



Cloud Hosting
for CSB INDUSTRY ERP
and CSB FACTORY ERP



Cloud Computing
for CSB BASIC ERP



Local Stand-Alone
Installations



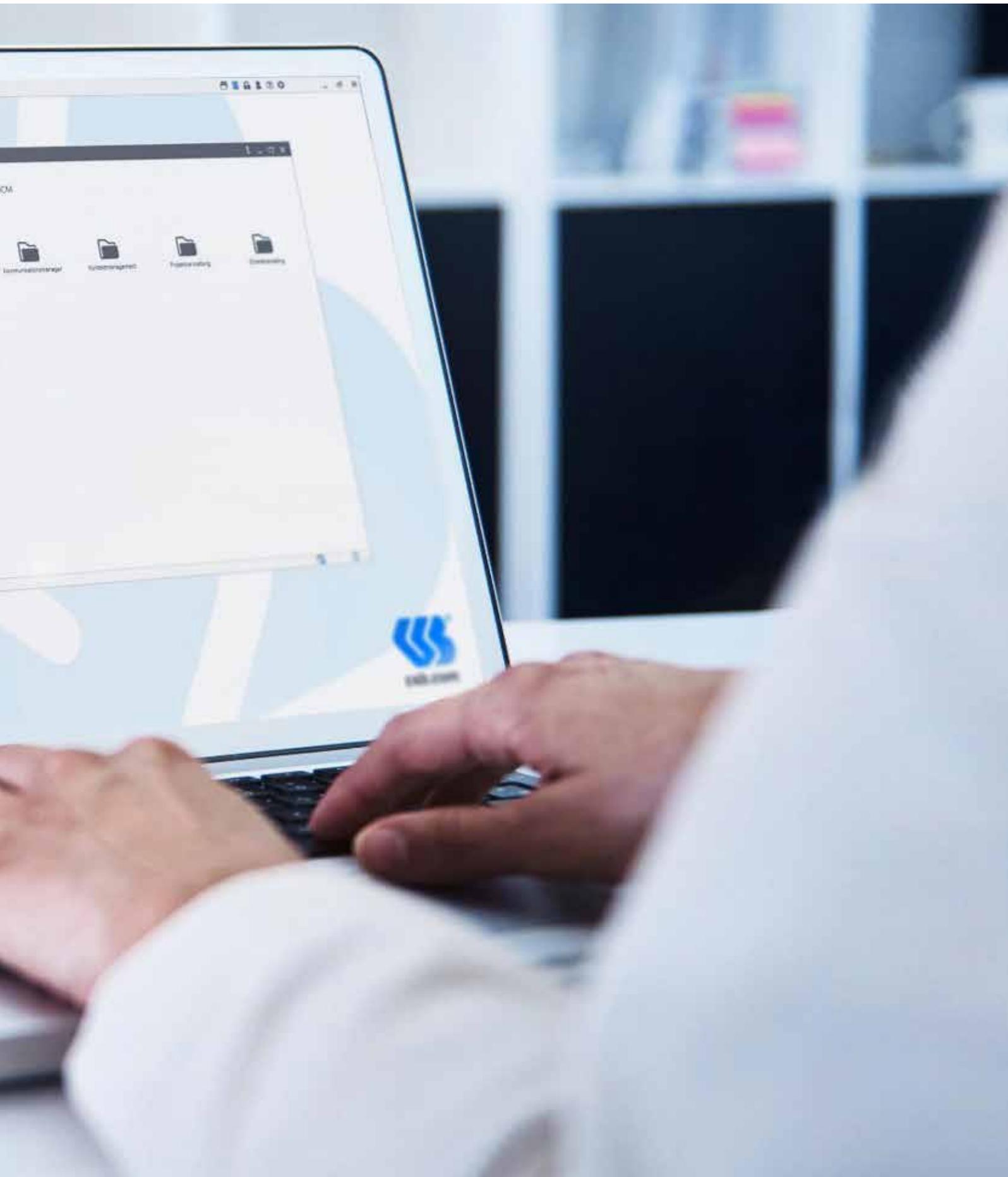
Web Applications
on IIS

Since 2015, CSB has held the DQS certificate according to ISO/IEC 27001:2013 applicable to the provision and operation of a data center and IT infrastructure in Germany at the location in Geilenkirchen.

Mobile access to all relevant information.

Our customers are kept abreast of their business at any time, even when they are on the move. From the web app and the online ordering system to the online shop: The web-based

user interface of the CSB-System facilitates the mobile use of the ERP system so that information can be retrieved and processed directly on a notebook, tablet, or mobile phone.

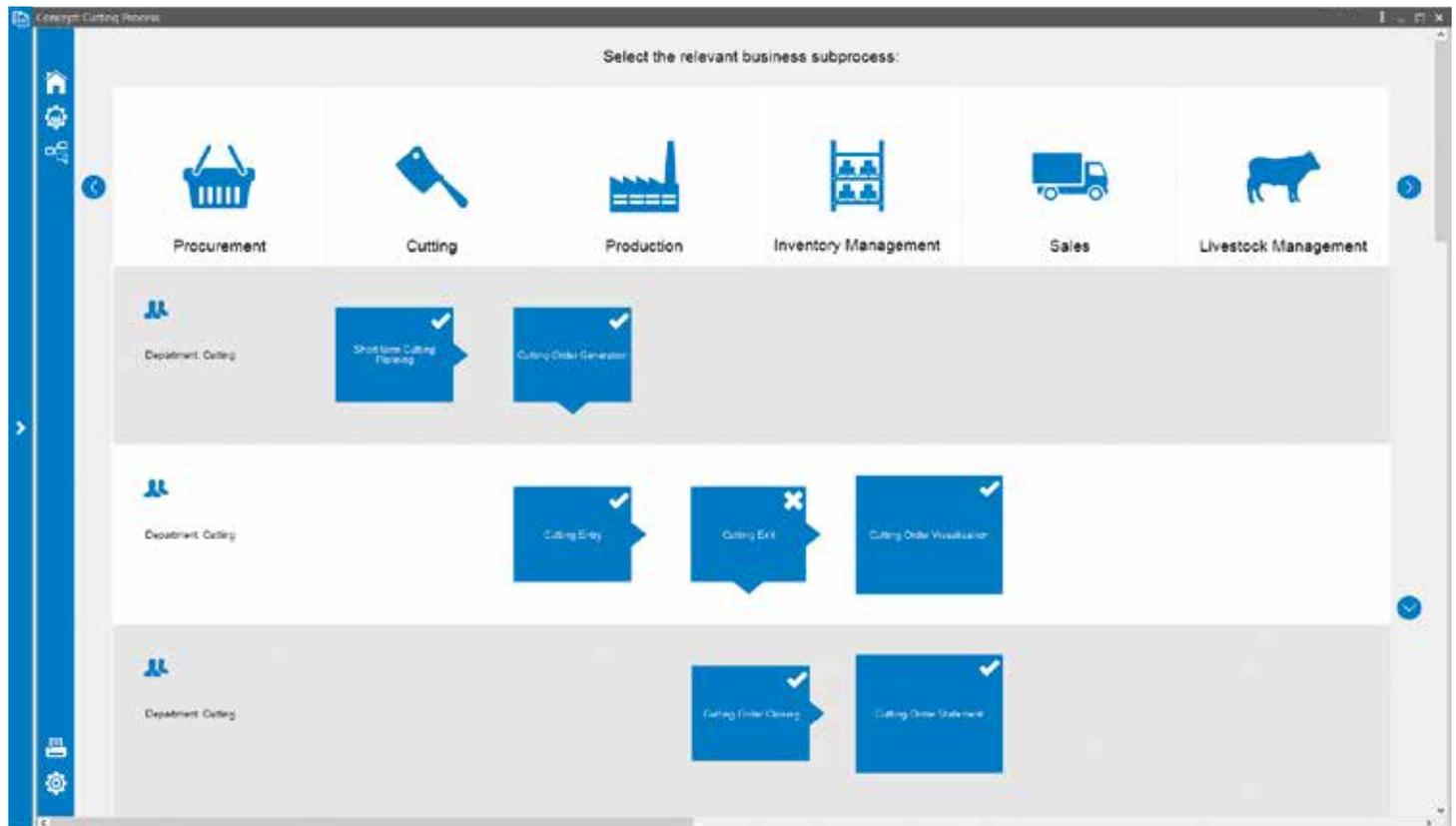


Optimize processes. With an individual design or using industry-specific best practices.

The innovation system CSB Bonanza and Digitization gives you access to best practices so you can utilize the expertise from 40 years of experience in the process industry, and 1,200 installations worldwide.

With CSB Bonanza and Digitization, the CSB standard version is supplied with a set of optimized business processes, specifically geared to the food, beverage, chemicals, pharmaceuti-

cals and cosmetics industries as well as the trade sector, and adapted to most countries in the world. The tried-and-tested best-practice business processes are permanently optimized.



A tool for process optimization and design.

With the process configurator, you can easily design your individual process according to your specific requirements. Core processes, business processes, sub-processes or single

elements and functions – CSB Bonanza and Digitization help your company to work even more efficiently.

Aggregate process knowledge directly available.

In CSB Bonanza and Digitization, we have aggregated our entire process knowledge from numerous implementations so we can make it centrally available for you. All processes of your CSB-System come from Bonanza, and they are fed back

to the central database. In this way, we make sure that your CSB-System is optimally adapted to your company to match your specific needs.

Efficient documentation of your process landscape.

With CSB Bonanza, you adapt your CSB-System exactly to your company and your specific needs. The system automatically creates the digital documentation of your process

landscape. At the press of a button you can also print the documentation of the processes as a Word document, quick and easy.

With CSB Bonanza and Digitization, you obtain your smart ERP system – tailored to your needs

Digital innovation system CSB Bonanza

Digital best-practice industry processes

Customer-specific extensions

Country-specific requirements (laws, standards, localization)

Upward-compatible technologies



Digital process management



Industrial automation



AI and optimization algorithms



Networked machines



Internet of Things



Industrial image processing



Digital data management



Digital cloud platform

All innovations are incorporated into CSB Bonanza

CSB Bonanza comprises the entire CSB intelligence

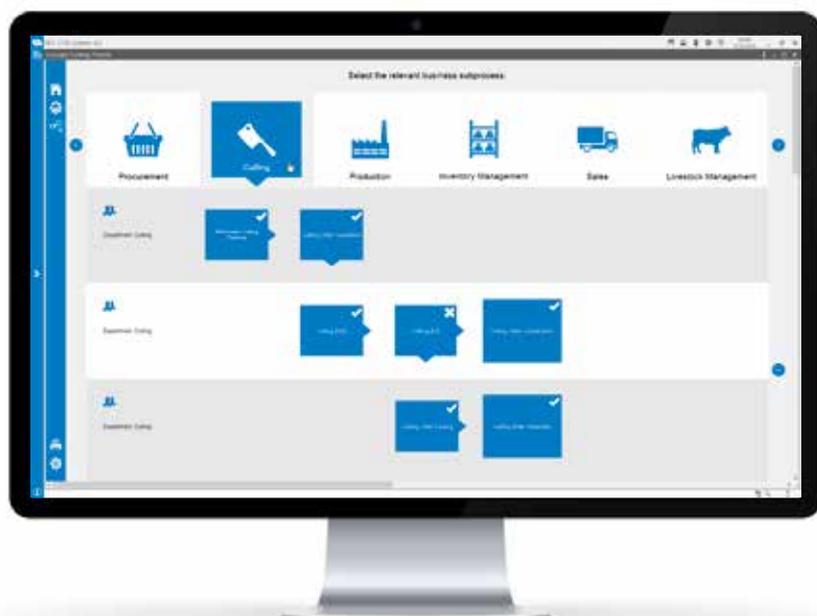
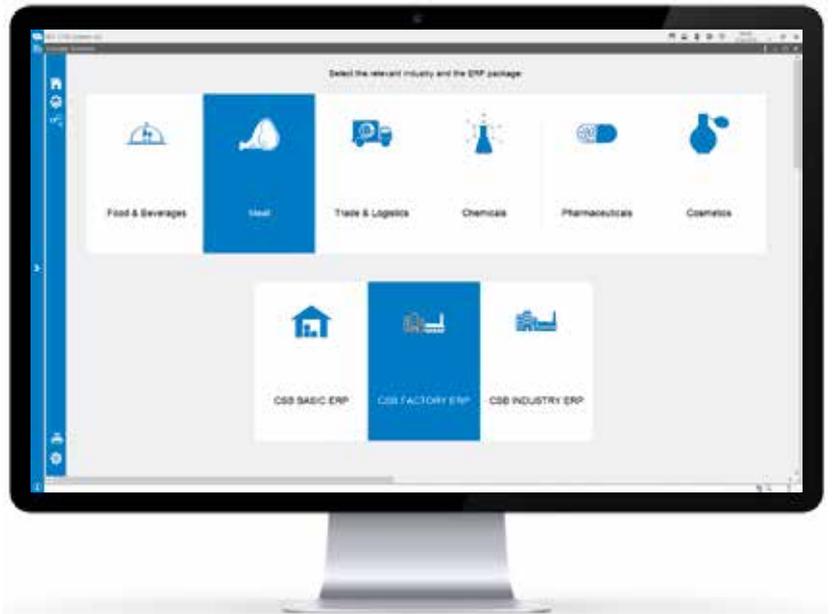
Your smart ERP system – tailored to your needs

Five steps to the optimized process

Using the best-practice cutting process as an example, we will show you how easy it is to design individual processes with the process configurator.

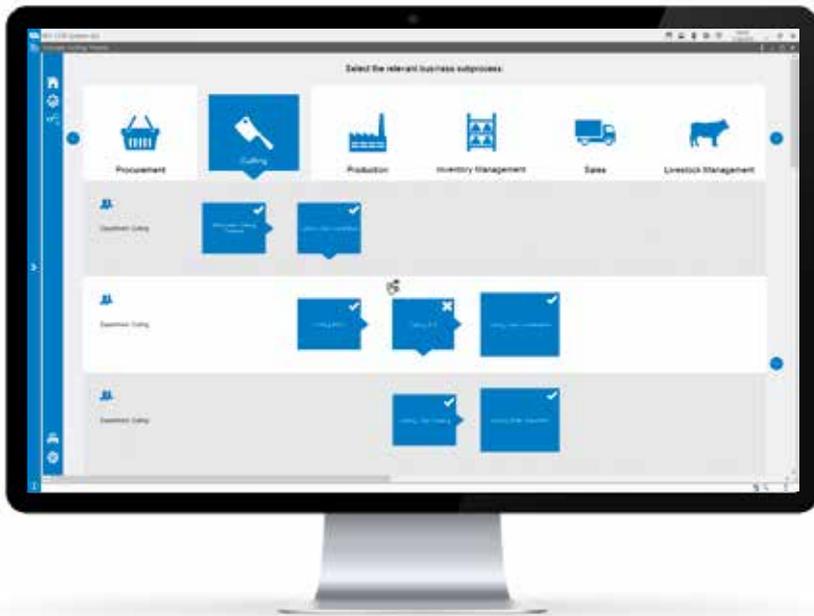
Step 1

In the overview, select the industry and the desired ERP package.



Step 2

Select the best-practice process for cutting to visualize it in a graphic.



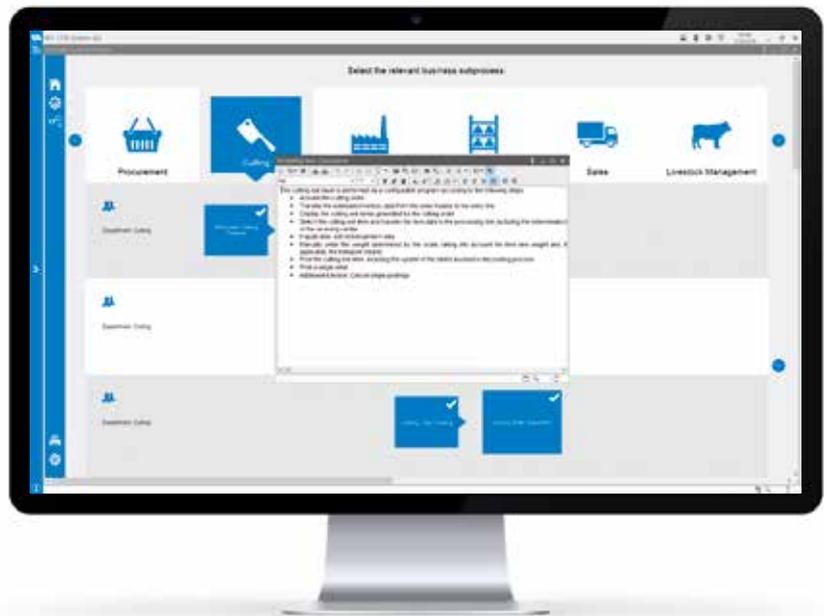
Step 3

With a few clicks, the sub-processes of the cutting process can be included or excluded.

Step 4

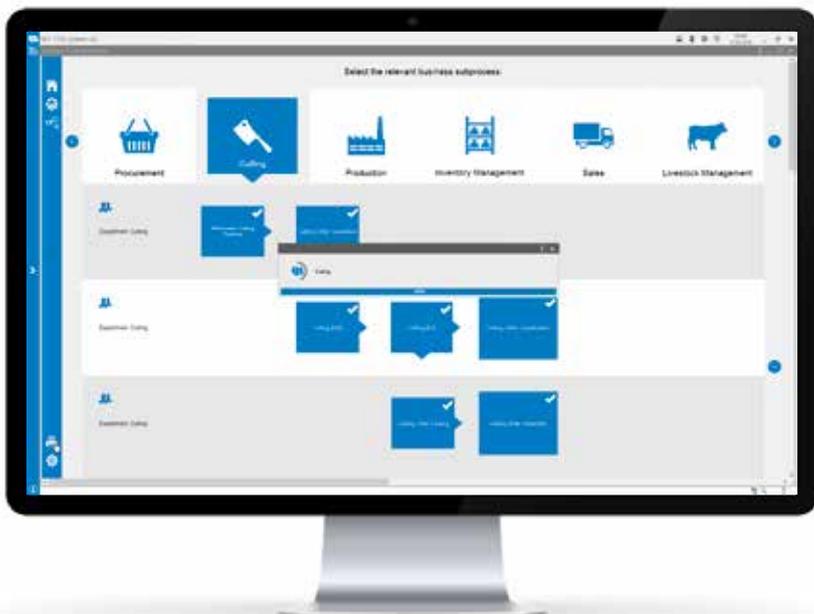
For every sub-process, a detailed description of the functionalities can be displayed.

When you design your individual processes, this will help to decide which sub-processes should be included in the composition of the cutting process.

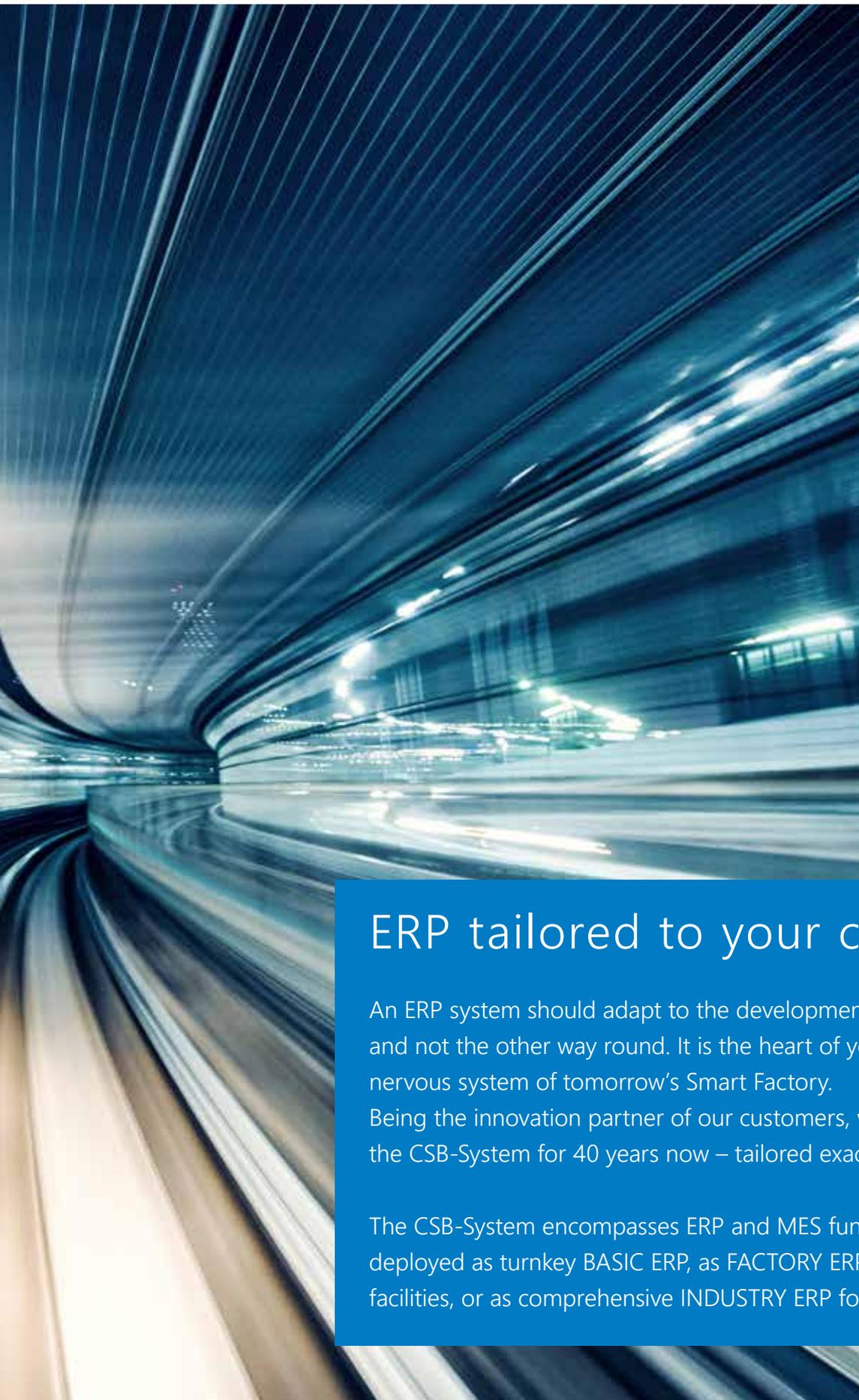


Step 5

You have now configured the cutting process according to your individual preferences. The system will create the relevant process documentation automatically.







ERP tailored to your company.

An ERP system should adapt to the development of your company, and not the other way round. It is the heart of your IT, and the central nervous system of tomorrow's Smart Factory.

Being the innovation partner of our customers, we have developed the CSB-System for 40 years now – tailored exactly to your company.

The CSB-System encompasses ERP and MES functions and can be deployed as turnkey BASIC ERP, as FACTORY ERP for single production facilities, or as comprehensive INDUSTRY ERP for the entire company.

The CSB-System as BASIC ERP – the turnkey industry solution.

Specifically for companies looking for a turnkey ERP system that is ready to use right away. With CSB BASIC ERP, you obtain the industry expertise of the internationally successful CSB-System as a turnkey industry solution. It gives you access to more than 40 years of industry expertise, best practices from over 1,200 installations, and state-of-the-art software technologies.

You can comfortably draw on best-practice processes that cover all industry and market requirements. You could also use BASIC ERP in the cloud. In this way, you minimize your expenses for IT staff and materials. We handle all techni-

cal jobs for you, as for instance data backup and system maintenance.

CSB BASIC ERP has received the "FLEISCHER-HANDWERK Award 2019".

CSB BASIC ERP offers best-practice standards for all relevant processes of your company. As a turnkey solution.



CSB BASIC ERP interacts seamlessly with your hardware, your financial accounting software, trade, and your customers.

Standard interfaces to CSB BASIC ERP.



The CSB-System as FACTORY ERP – the industry solution for your production facilities.

Specifically for corporations and company groups where a GROUP ERP, as for instance SAP, is in use. CSB FACTORY ERP extends your Group ERP with uniquely industry-specific processes spanning the entire primary value creation of production and logistics. This allows you to better manage your factories.

Standard interfaces between Group ERP and FACTORY ERP guarantee a flexible and integrated system landscape. Updates and release changes are implemented faster and more cost-effectively, and new market and compliance requirements are integrated more easily.

CSB FACTORY ERP is "Factory Software of the Year 2018".

Standardized data exchange between Group ERP and FACTORY ERP

Group ERP

Items, addresses & prices

Procurement orders*

Long-term planning*

Sales orders*

FACTORY ERP



Standard interface 1:
Master data



Standard interface 2:
Procurement & receiving



Standard interface 3:
Planning & production



Standard interface 4:
Inventory & traceability



Standard interface 5:
Sales & shipping



Standard interface 6:
Accounting & costing



CSB-SYSTEM

Receiving quantities

Current quantities & product cost

Stock on hand

Detailed delivery note & invoice data

Calculation of margins & invoice books (optional)

Group ERP

* Optionally available also in CSB FACTORY ERP



CSB FACTORY ERP offers standard interfaces to machines and equipment. The integrated CSB Linecontrol makes a separate MES redundant. We will be glad to provide detailed information.

CSB FACTORY ERP networks all factory areas, including machines and equipment, in one system with a consistent data basis. This ensures transparency and optimizes the processes at your factories. A separate MES is no longer needed.

Redundancies, inconsistencies and work for double entries in Group ERP and FACTORY ERP are eliminated.

Weak points at your factories are easily identified, the responsiveness on site is enhanced, and the overall costs are reduced substantially.

The CSB-System as INDUSTRY ERP – the all-inclusive solution for your company.

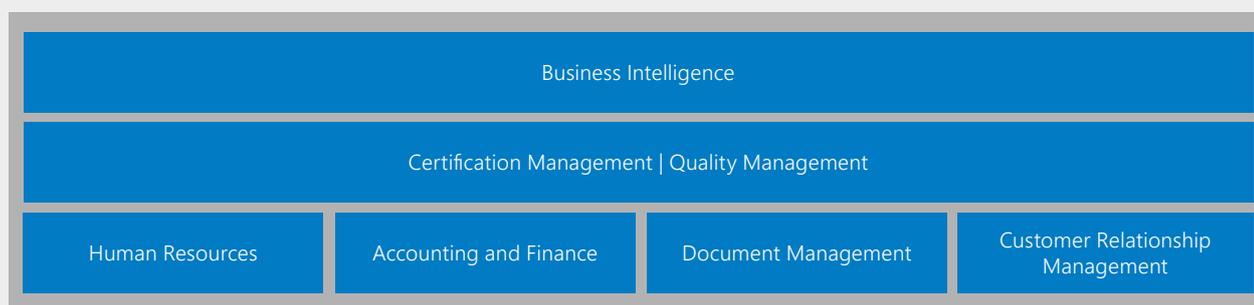
Specifically, for companies that want an all-inclusive solution for their whole enterprise. Optimally geared to the requirements of your industry, CSB INDUSTRY ERP as an all-inclusive industry solution covers all areas of the value chain, vertically and horizontally.

CSB INDUSTRY ERP is modular and scalable. This allows you to introduce systematically the functionalities that offer you the most added value. Flexibly and in the steps you decide.

CSB INDUSTRY ERP is “ERP System of the Year 2016”.

The turnkey solution for your whole company.

Management



Added value



Production



The CSB INDUSTRY ERP covers all business processes from the individual process to the turnkey solution, and it can be expanded flexibly.

Overview of the CSB-Industry Solutions

The choice is yours – our ERP packages for you



| Areas | CSB as BASIC ERP | CSB as FACTORY ERP | CSB as INDUSTRY ERP |
|---|------------------|--------------------|---------------------|
| Basic ERP functions for core processes | + | + | + |
| ERP functions for traceability and quality management | + | + | + |
| ERP functions for finance and controlling | - | - | + |
| ERP turnkey solution for the entire company | - | - | + |
| Standard interfaces financial accounting software | + | + | + |
| Standard interfaces Group ERP | - | + | - |
| Standard interfaces hardware (CSB-Rack, scale, mobile devices, cash register) | + | + | + |
| Standard interfaces equipment and machines | - | + | + |
| Customizable processes | - | + | + |
| Fulfillment of trade requirements | + | + | + |
| Available as cloud version | + | + | + |
| International best-practice standards | + | + | + |
| Upward compatible | + | + | + |
| 100 % industry-specific | + | + | + |

The CSB-System is available for every company size. Small businesses successfully use BASIC ERP, medium-size and large ones use the full INDUSTRY ERP, while corporate groups control their facilities with FACTORY ERP.

Project success right from the start.

From the onset, we will accompany you on your way to implementing a suitable solution for your company so you will be able to make full use of the potential benefits.

From the first contact, to the implementation, and to training, CSB implements everything from a single source.

The introduction of the CSB-System is exclusively supported by employees of our company. In line with our company philosophy, we will be your sole point of contact.

Our experts with international experience come directly from your industry. This enables a communication between peers and guarantees more efficient processes.

During the project implementation, you will benefit from our global knowledge base.





First-class consulting and services for optimal business results.

Together with you, our industry experts will analyze your business processes and assess the optimization potential. Based on the results of this performance and optimization analysis, we will develop an individual solution concept in line with your strategic business objectives. The focus is on increasing the efficiency of the corporate users and on utilizing the full optimization potential. We also use this approach for greenfield projects.

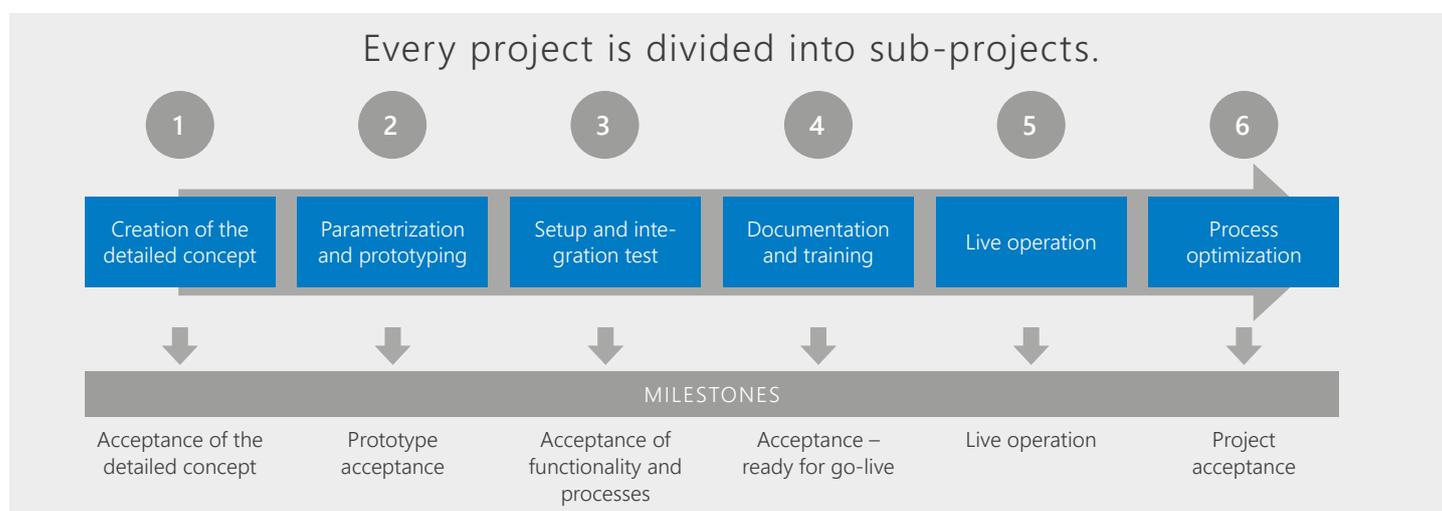
Safe and efficient from concept to live operation.

From start to finish, we efficiently and reliably control the project implementation for you. Our consultants are located around the world and implement your projects regionally, with international expertise.

The project execution follows a hybrid methodology in structured and steered project phases that are based on classic project management methodology (waterfall approach) in combination with agile project management methods. Flexible sprints within these phases allow a quick response to changes in the project environment (agile project management).

In order to reduce the complexity, the functional scope of the project is divided into sub-projects. A project plan comprising the schedules, resource and budget plans for all project activities as well as the project milestones, is established.

In a project kick-off meeting, the work packages, the project governance and the execution methodology are discussed. At the same time, the basic installation of the CSB-System is performed on site or in the cloud. Using this project methodology, even highly challenging projects can be implemented within a very short time and securely replace stand-alone solutions and legacy systems.



Planning of all projects with time, scope and quality.

It depends on the ERP package how long the introduction of the CSB-System takes. The implementation of the basic package CSB BASIC ERP is usually performed within two to three weeks. Additionally, you need to account for the time that the user needs to set up the master data. The time until go-live is usually six to eight weeks. The result for the customers is a standard system that they can operate themselves, but for which they do not need an own IT department.

For larger entities, we recommend CSB FACTORY ERP, which naturally would require more time from the current state analysis to the live operation, depending on the initial situation and the complexity of the processes at the facility. This

software uses standardized interfaces to communicate with the systems of other vendors, for example, if you use CSB FACTORY ERP in processing, and SAP as a GROUP ERP system in administration.

The most complex, but also the most powerful system is CSB INDUSTRY ERP. This all-inclusive solution comprises all processes of an enterprise. For a project with a high degree of individualization of the processes, realistically a duration of one to two years should be planned.

All projects are planned and calculated in terms of times, scope and quality, and the necessary steps are defined.

Tailored individually to your level of knowledge.

We are continuously educating your system users so that you make optimum use of the CSB-System in your business processes. Besides support and training directly at your company, courses at the CSB-College and webinars take place

on a regular basis. We specifically educate your staff in basic, advanced and special courses, tailored to the individual level of knowledge. The instructors of the CSB-College are experienced IT and industry experts.

Quick processing of consulting requests.

We have established our Inside Consulting division to ensure quick handling of your consulting requests. Our experts on

site at our customers' have easy and direct access to an internal pool of consultants.

The all-in-one package for your support requests.

Of course, we offer specialized 24/7 technical support in German and English. Qualified hotline teams are well prepared

for every situation and will answer your questions competently and quickly.

Obtaining synergies in cooperation with partners.

We are continuously developing the CSB-System and working on new technologies and innovations that create real added value for our customers.

as a result, to create competitive advantages for you as a customer.

We are constantly enhancing our hands-on project expertise by cooperating with numerous industry specialists in order to obtain synergies, to develop best-practice solutions and, as

We cooperate with numerous partners from the fields of science, technology, software, and automation. In these partnerships, we can jointly identify trends and innovations early on and assess them appropriately.

The latest findings from research and development

are incorporated immediately in our range of services and directly made available to our customers.



Artificial Intelligence

Own Artificial Intelligence (AI) development department with >30 years of experience with algorithms. Research in cooperation with Potsdam University



Industry 4.0

Orientation of the CSB-System towards further digitization and future Industry 4.0 applications



Co-innovation

Development of co-innovations with our partners in more than 1,200 projects



Research

Partner and university campus of RFH Köln – Dual study programs for business administration and business information management (Bachelor & Master)



Cloud & security

CSB has own data centers and IT security experts



Mobile solutions

Specialists for mobile terminals develop mobile solutions



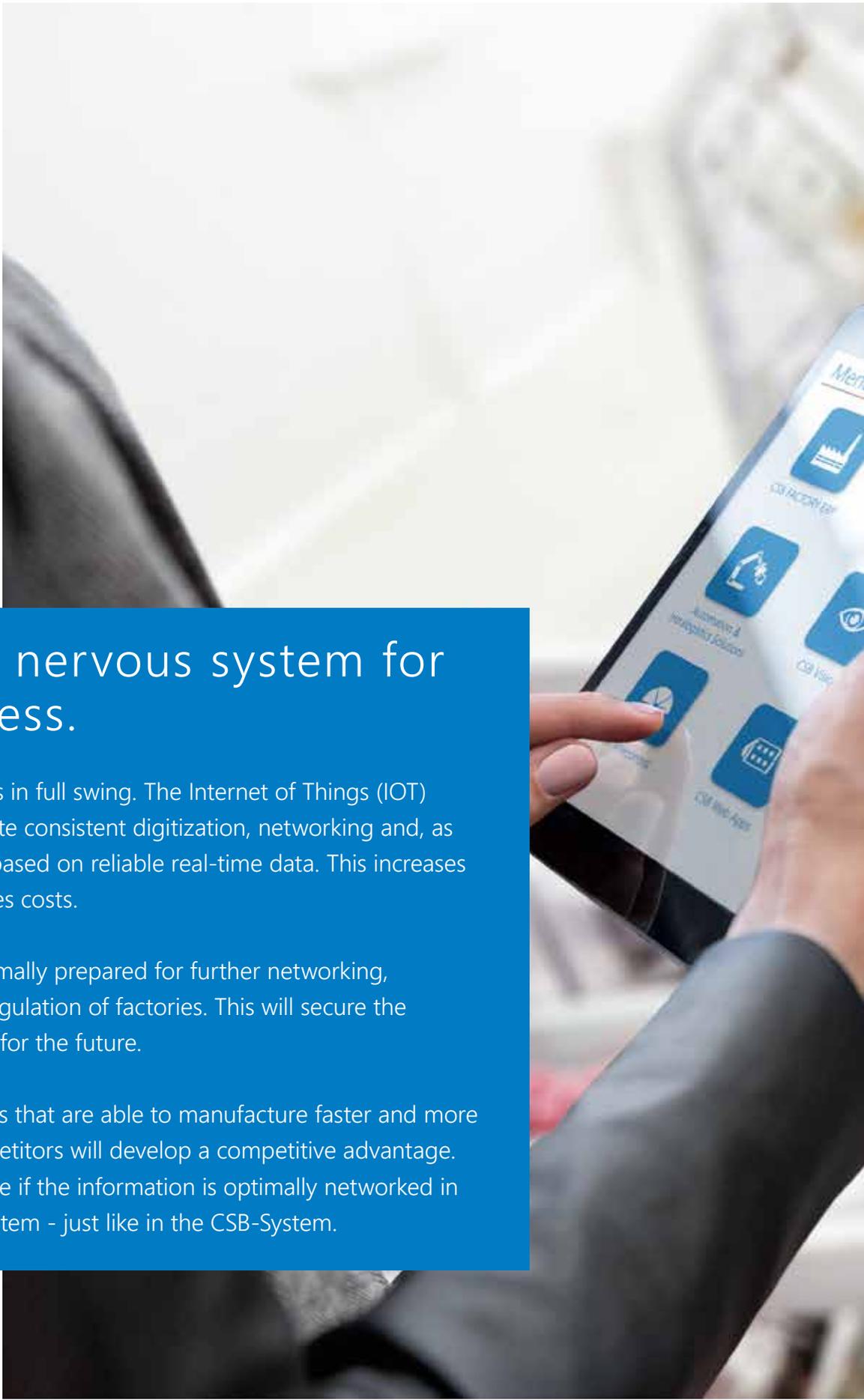
CSB Test Lab

At the in-house CSB Test Lab, we simulate and test solutions under real-life conditions



Image Processing

Research and development of industrial image processing systems



The digital nervous system for your business.

Digital transformation is in full swing. The Internet of Things (IOT) and Industry 4.0 facilitate consistent digitization, networking and, as a result, management based on reliable real-time data. This increases productivity and reduces costs.

The CSB-System is optimally prepared for further networking, automation, and self-regulation of factories. This will secure the competitive advantage for the future.

In the future, companies that are able to manufacture faster and more flexibly than their competitors will develop a competitive advantage. This will only be possible if the information is optimally networked in one central nervous system - just like in the CSB-System.



The CSB-System is the heart of the Smart Factory.

The Smart Factory is not a mere vision. With the CSB-System, you utilize the benefits of digitization and prepare your enterprise for the future.

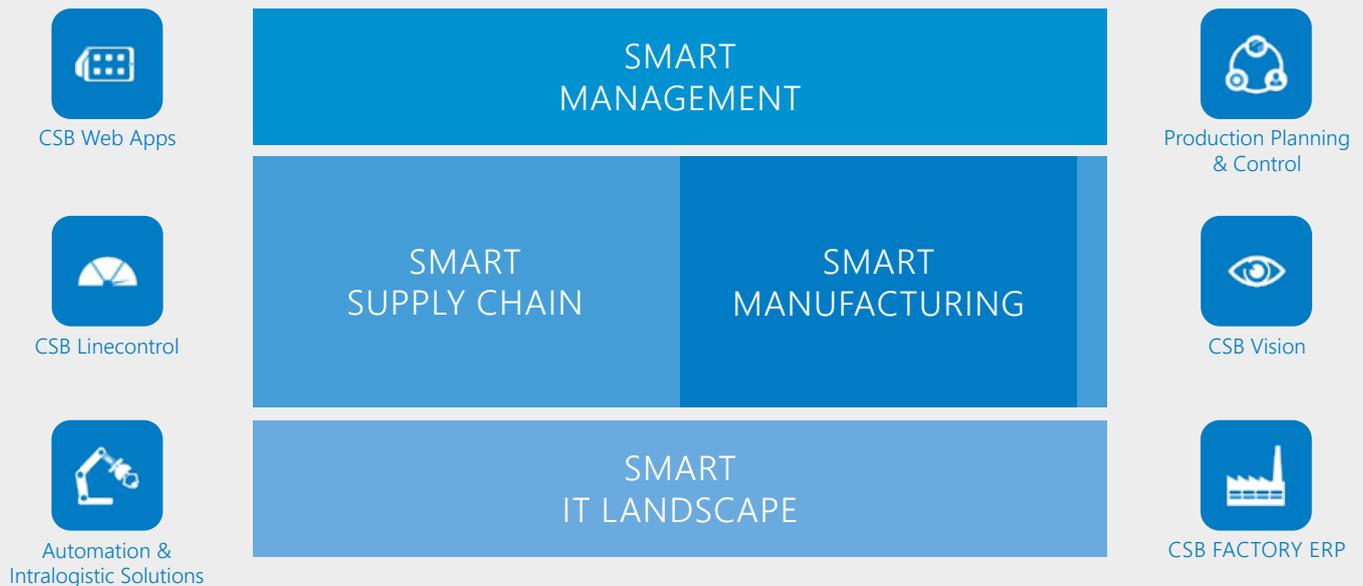
With the MES being integrated in the ERP system, the foundation is laid for the autonomous production facility. It establishes the connection between company management and production control and simplifies the machine-to-machine networking.

The ERP system will remain the information technology backbone of the company in the age of the Smart Factory.

The better our customers use their information and data for organizing their production and logistics, the more efficient they can schedule and utilize their resources. We have developed the right components tailored to your performance requirements from the software and architecture layers down to the core.

Plus, we supply the right solutions so you can manage the massive data volumes of the Smart Factory now and in the future.

Smarten Up Your Factory – with the technologies by CSB.



At the Smart Factory, smart management, a smart supply chain and, in particular, smart production as well as a smart IT landscape improve the efficiency of your business processes.

Managing complexity and reducing costs.

In the process industry, the focus of production planning and control is on unit diversity, freshness, and throughput rates. Mastering bottlenecks and the 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 and inventory stocks are reduced. As a result, you reduce production costs substantially, and you can schedule and fulfill even short-term orders in a flexible manner.

Know what's going on, anytime and anywhere.

Over several decades, the processes in the factories were defined by the existing structures: The location of machines, conveyor belts or picking systems determined the spots where information was collected and where added value was created.

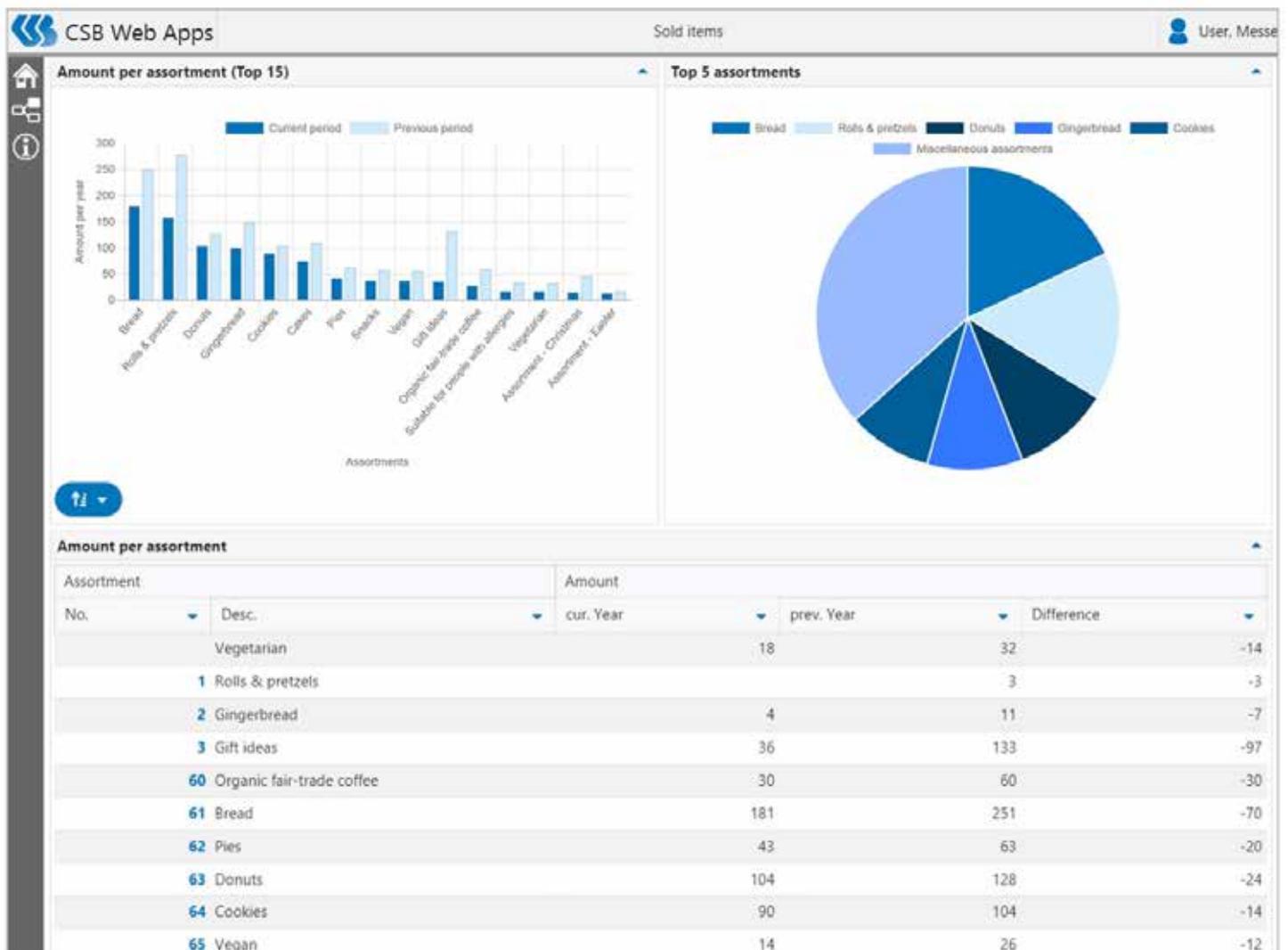
Our web and cloud-based apps unwind this correlation through the decentralized provision of information.

The CSB web apps enable our customers to control and monitor their production processes, and provide dashboards

with key financial figures and sales data as well as production KPIs – on their PCs, tablets, or smartphones.

Unlike in classic production concepts, the information is generated and supplied right where the value creation takes place, or where the employees need it. For example, quality tests can be performed anytime in Receiving using touch-screen terminals, tablets, or even smart glasses.

In general, all processes in the food production can be incorporated in a coherent data management so that the entire product life cycle from the field to the packaging can be represented and visualized digitally.



Optimal control of production and packing 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 your production manager. Bottlenecks and malfunctions in the production

and packing lines are visualized immediately. This allows quick and systematic troubleshooting. Unplanned downtimes are reduced, keeping the overall equipment effectiveness (OEE) on a constantly high level.

Your factory can learn to see.

With the industrial image processing technologies of CSB Vision, raw materials and products can be classified and sorted according to their quality and their optimum utilization for an 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 the error rates and the costs, enhances the quality, and increases the value added.

At IFFA 2016, CSB Vision won the Fleischerei Technik Award for the best innovation in the "Automation" category.

CSB Vision offers multiple functions for production.



Vision Grading

- Classification of carcasses at the kill line
- Grading of meat cuts
- Side recognition in carcasses
- Cold grading of carcasses in receiving and in cutting entry



Vision Identification

- Automated item recognition
- Automatic face recognition
- Transport unit recognition
- Barcode recognition in transport units
- Gender recognition at the kill line



Vision Quality

- 360° Product quality analysis
- Valuation of destructured meat
- Automated animal welfare assessment at the kill line



Vision Documentation

- Documentation of crate contents and containers
- QA documentation of all sorts of raw materials
- Documentation of animal welfare



Vision Robotics

- Automated material flow control
- Pick and place robot control system
- Automatic marking of carcasses

Smart. Efficient. Integrated. Automation and intralogistics solutions by CSB.

From intelligent material flow control to flexible, fully automatic order picking and control of high-bay storage facilities and batching systems: Our tried and tested solutions for a coherent integration of systems ensure uninterrupted data acquisition directly at the point of origin and maximum productivity of your machines. The information and control

technology is exactly tailored to your needs, and it creates transparent resource-optimized processes. Combined with state-of-the-art automation technology, this results in efficiency gains that create the decisive competitive advantage for your company.

Advanced intelligence from the CSB AI Lab.

In our software development division, we are bundling our activities to prepare the corporate users optimally for the digital future. Artificial Intelligence (AI) and AI-based application will play an increasingly important role in all divisions of the company, and they promise competitive advantages in the forecasting and control of important business transac-

tions. This is why we at CSB explore in our in-house AI Lab in which ERP areas the AI solutions would bring real added value for our customers. The aim of the intelligent CSB-System is to help you to work more efficiently and cost-effectively so you achieve better results for your business.

Overview of the key benefits of the CSB-System.



You save costs, and you introduce the system within a short time

The CSB-System offers modules for all divisions of your enterprise, which you can extend flexibly later on.



You can manage your company even more successfully

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



You have high security of investment

Choose the CSB-System that matches your company: BASIC ERP, FACTORY ERP or the all-encompassing INDUSTRY ERP.



You reduce redundancy and improve quality

Redundancy, inconsistency and the work for double entries are a thing of the past in your enterprise.



You ensure transparency and lean business processes.

The CSB-System interlinks all company areas in one system with a coherent data basis.

The CSB-System is in use worldwide.



Food & Beverages



Rischart
Münchner Genuss



Meat



МИРАТОП

■ PROMESSA
innovatief in vlees ■



Trade & Logistics

colruytgroup



Chemicals



baumbach



DINOL

IGP POWDER COATINGS



Pharmaceuticals



Multiforsa

PHARMA STULLN



Cosmetics



Compes Cosmetic GmbH & Co. KG
die Kosmetikerin

LA SCHMITT
KOSMETIK SEIT 1921



Do the reality check!

Visit one of our customers and experience the CSB-System live!

