

# RELIABLE SUPPLY CHAIN PLANNING FOR YOUR FOOD & BEVERAGE PRODUCTION WITH OUR SOFTWARE SOLUTIONS

Complex structures, a multitude of different parameters and rapidly changing production logistic conditions – this characterises your daily production routine. This, coupled with industry-specific challenges such as high perishability, the highest production safety requirements and increasingly complex supply chains, makes end-to-end supply planning a necessity.

With the software solutions of our product provider ORSOFT, this is possible from sales forecasting to procurement planning to detailed planning. Based on many years of experience in the industry, we offer you solutions that meet the latest technological standards – and thus not only provide true business value, but also make your production fit for the digital future of production at the same time.



## **ORSOFT Enterprise Workbench:**

Monitor globalised value chains in real time through end-to-end supply chain optimisation

The ORSOFT Enterprise Workbench in-memory solution supports SOP planning, demand planning, inventory optimisation, strategic material and capacity simulations, and reliable capacity balancing. Instead of SOP planning in fixed cycles, this enables planning that can be executed at any time, providing reliable planning results that can be directly implemented in detailed planning within very short response times.

With the help of artificial intelligence and machine learning, forecasting and demand planning with volatile demand curves, for example, ensure significant increases in forecasting accuracy and better promotion planning. Thanks to Sales & Operations Planning, it is possible to simulate tactically and operationally how seasonal pre-production can be planned cost-effectively and how forecast quantities can be allocated to alternative production locations in a way that optimises transport. Seasonal price fluctuations of raw materials or quantity discounts are used for cost optimisation in purchasing, while warehouses are better utilised. Stocks are checked against expiry at any time, so that the destruction of produced goods in the warehouse can often be avoided.

The solution is based on the production logistics model of SAP ERP or SAP S/4HANA. The capacity check is not based on coarsened volume-time requirements, but on scheduling, taking into account relationships, shifts and other restrictions. Interactive, simulation-based planning processes replace the previous batch-oriented processes, and rough-cut planning is seamlessly offset against detailed planning.

Sales planning within the Enterprise Workbench enables more precise statements to be made about future sales trends. Variable, definable key figures allow promotions and special effects to be well separated. The program also allows the automatic selection of the most suitable forecasting function. Necessary data can be loaded from SAP ERP or SAP S/4HANA as well as from Excel files. Due to the existing connection with SAP ERP or S/4HANA, all planning data is always up to date. Inventory Optimization as an EdgeOne app of ORSOFT Enterprise Workbench balances conflicts between achieving a high service level for customer orders and the lowest possible inventory costs.

### **The advantages of the “ORSOFT Enterprise Workbench” at a glance**

- Real-time planning
- Security through certified integration with SAP ERP and SAP S/4HANA
- Same KPIs on all planning levels
- Vertical hierarchical distribution of distribution functions
- Reliable results with compact lead times even for long-running logistics chains



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## **ORSOFT Manufacturing Workbench:** Simultaneous material and multi-resource planning

The challenges for detailed planning in the food & beverage industry are manifold: short-term orders from customers, time pressure for promotional goods, delayed or limited raw material deliveries due to weather conditions or frequent setup changes of production machines due to changing demands are just a few everyday companions. This complexity can often only be managed with a detailed planning tool.

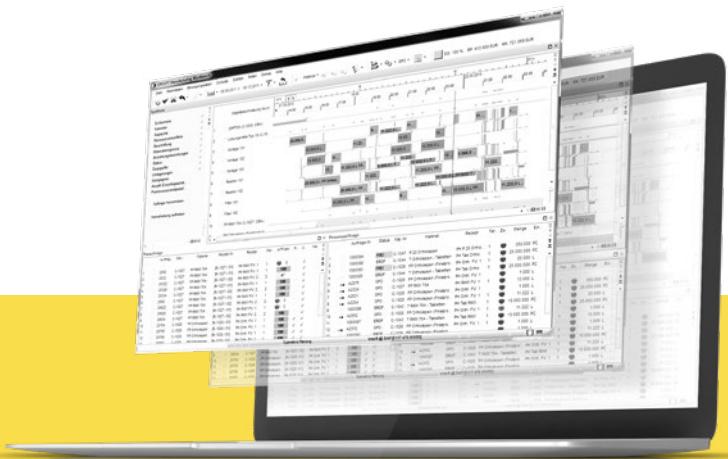
ORSOFT Manufacturing Workbench follows the principles of Advanced Planning and Scheduling and provides interactive material and multi-resource simultaneous planning with the ability to create planning scenarios and collaboratively select the desired scenario based on key performance indicators. Industry enhancements, such as the ability to map tanks or link long production campaigns, allow the production process to be mapped digitally in line with the Digital Twin principle. Based on data from SAP ERP or SAP S/4HANA, the software provides an immediate overview of capacity utilisation, material flows, delay situations and material key figures – even across sites.

ORSOFT Manufacturing Workbench supports both manual processes and automated planning, in which humans only intervene in a regulatory capacity. All partial solutions are not only used as APS systems or control stations, but existing SAP processes are replaced, for example, by online ATP and CTP checks by means of static or dynamic pegging at the push of a button directly from SAP transactions. Users thus receive up-to-date and reliable statements on delivery dates and determined prices immediately in the sales process.

Our detailed planning software uses a certified interface to the SAP system and can be implemented and productive within a few weeks.

### **The advantages of the “ORSOFT Manufacturing Workbench” at a glance**

- Easy to administer software and interface
- 100% integrated with SAP ERP and uses existing SAP ERP and SAP S/4HANA PP/DS data
- High-performance response through local RAM database with real-time planning capability
- Minimisation of project risk through piloting based on customer data
- ATP, CTP and PTP check directly from customer entry



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## ORSOFT LabScheduling:

Laboratory planning as part of an integrated planning process from planning to quality controls

Laboratories are often assigned to the shopfloor and are thus subject to the same requirements as classic production resources: in addition to a long-term forecast of capacity utilisation, tactical means are necessary to quickly increase capacities even in the short or medium term.

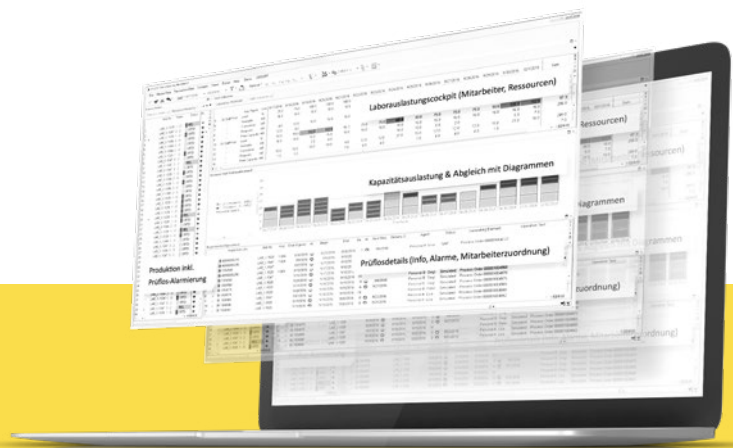
ORSOFT LabScheduling enables integrated laboratory planning based on production planning in the ERP up to the evaluations from the LIMS. At the process level, capacity analysis, capacity planning and detailed planning are supported. The planning horizon in laboratory planning is analogous to that of production planning. This allows precise capacity forecasting and early identification of capacity bottlenecks in the laboratories. In detailed planning, on the other hand, real-time data processing makes it possible to react flexibly to changing business events and to carry out agile detailed planning of the laboratories. A high level of planning transparency is thus achieved, and the entire business process is taken into account along the long, medium and short-term planning horizon.

Via a certified interface to SAP ERP and SAP S/4HANA, our software solution can be easily connected to SAP systems and all required master and transaction data can be extracted directly from SAP ERP. The planning is based on the production and procurement planning in SAP ERP / SAP S/4HANA. For this purpose, the set of inspection lots of SAP QM is supplemented with inspection lots simulated by LabScheduling. The inspection lots simulated by LabScheduling are used for the anticipatory consideration of capacity requirements. Further functions enable the prioritisation of inspections related to the requirements of production, procurement and sales.

It is also possible to assign inspection lots to employees. Detailed planning is supported by functions such as dynamic pegging or levelling.

### The advantages of “ORSOFT LabScheduling” at a glance

- Integrated planning of production and laboratories
- Certified SAP interface
- Flexible connection to external databases and LIMS
- Fast response capability through real-time data processing and complex simulation options
- Short, medium and long-term capacity forecasts
- Out-of-the-box functionalities such as simulated inspection lots, individual prioritisation of inspection lots, dynamic pegging or interactive and automatic levelling
- Access planning results via web front-end
- Reduce capacity bottlenecks and maximise throughput in labs



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## ORSOFT Master Data Workflow: Efficient Master Data Management for Accelerated Preparation Processes

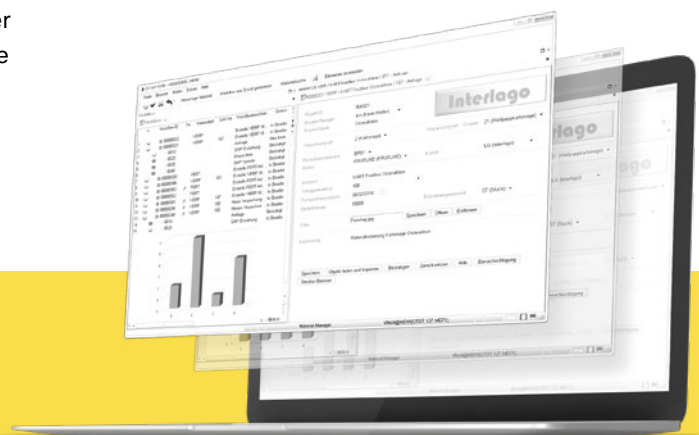
Rapid changes in the goods portfolio due to sales promotions and seasonal goods require numerous new master data objects in a short time. This leads to considerable additional work in production planning. Delays in the provision of the new master data lead to unnecessary storage costs, problems with shelf lives of raw materials, and delays in actual production. In order to simplify and intelligently control the entire process from data entry, validation and verification to release and finally creation of the final object in SAP ERP, an appropriate software tool is required.

Our solution ORSOFT Master Data Workflow is an extension for SAP ERP for workflow-based, quality-assured master data maintenance. The software enables the storage of provisional, simulated or incompletely maintained master data outside of SAP ERP objects, with data storage in SAP ERP-identical structures. The ability to define your own validation rules also makes the solution suitable for applications across countries with different legal requirements.

ORSOFT Master Data Workflow supports batch-oriented import of master data from third-party systems via database, XML and CSV interfaces. All existing check routines and consistency checks can also be applied to these import processes. Transformations of the data are possible both during the import of the data from the external source and after the model has been imported. In order to optimise the processing time, it is possible to model the process using sequential, parallel and conditional steps.

### The advantages of the “ORSOFT Master Data Workflow” at a glance

- Simplified and clear entry of rapidly increasing and frequently changing master data objects
- Assurance of master data quality before its creation in SAP ERP
- Support of mass changes for master data objects – defined statically or dynamically based on rules
- Governance, supervision and reporting of master data maintenance processes
- Batch-oriented import of master data from external systems with database, XML and CSV interfaces
- Re-validation of the SAP data budget through evaluation and correction algorithms



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