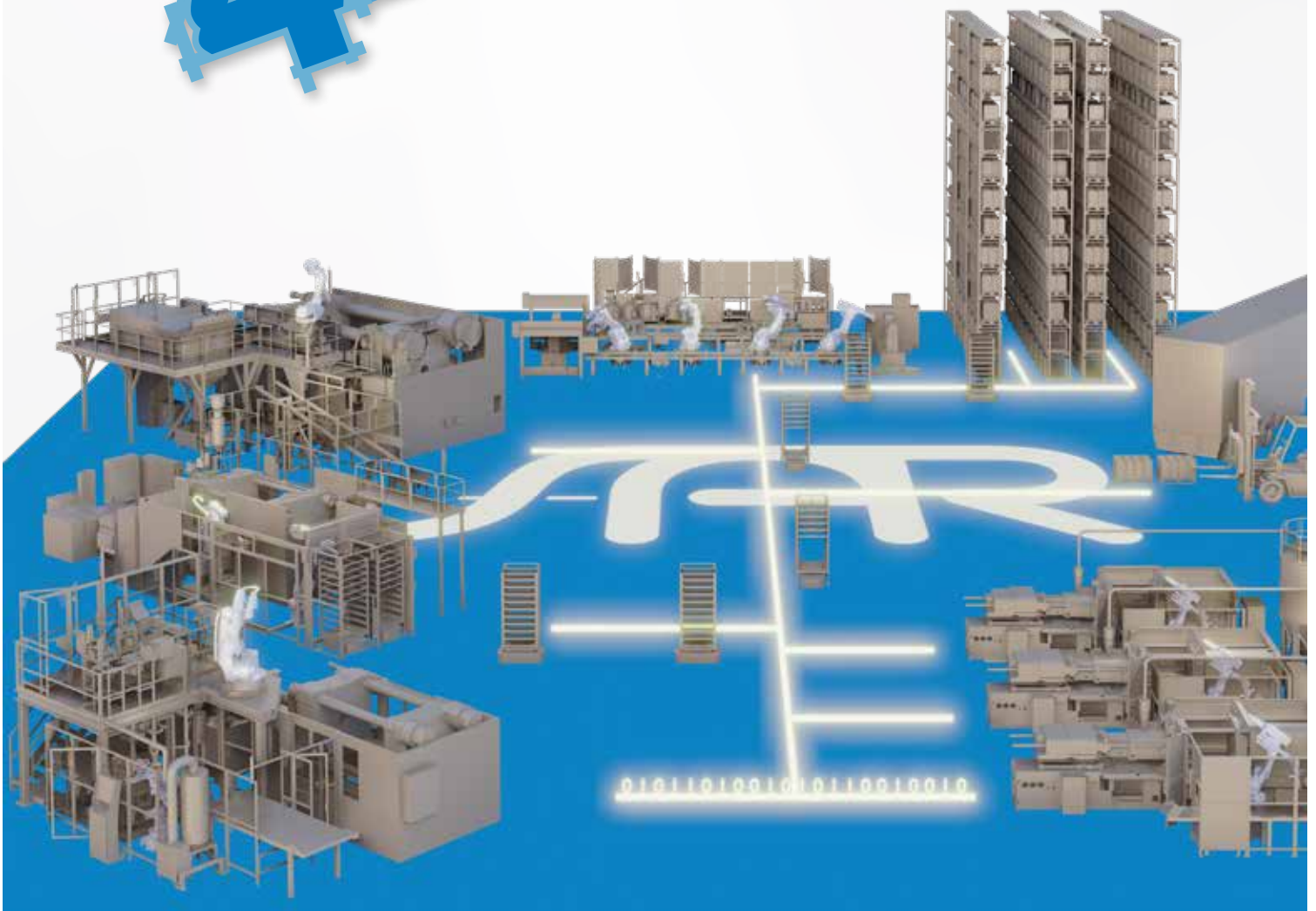




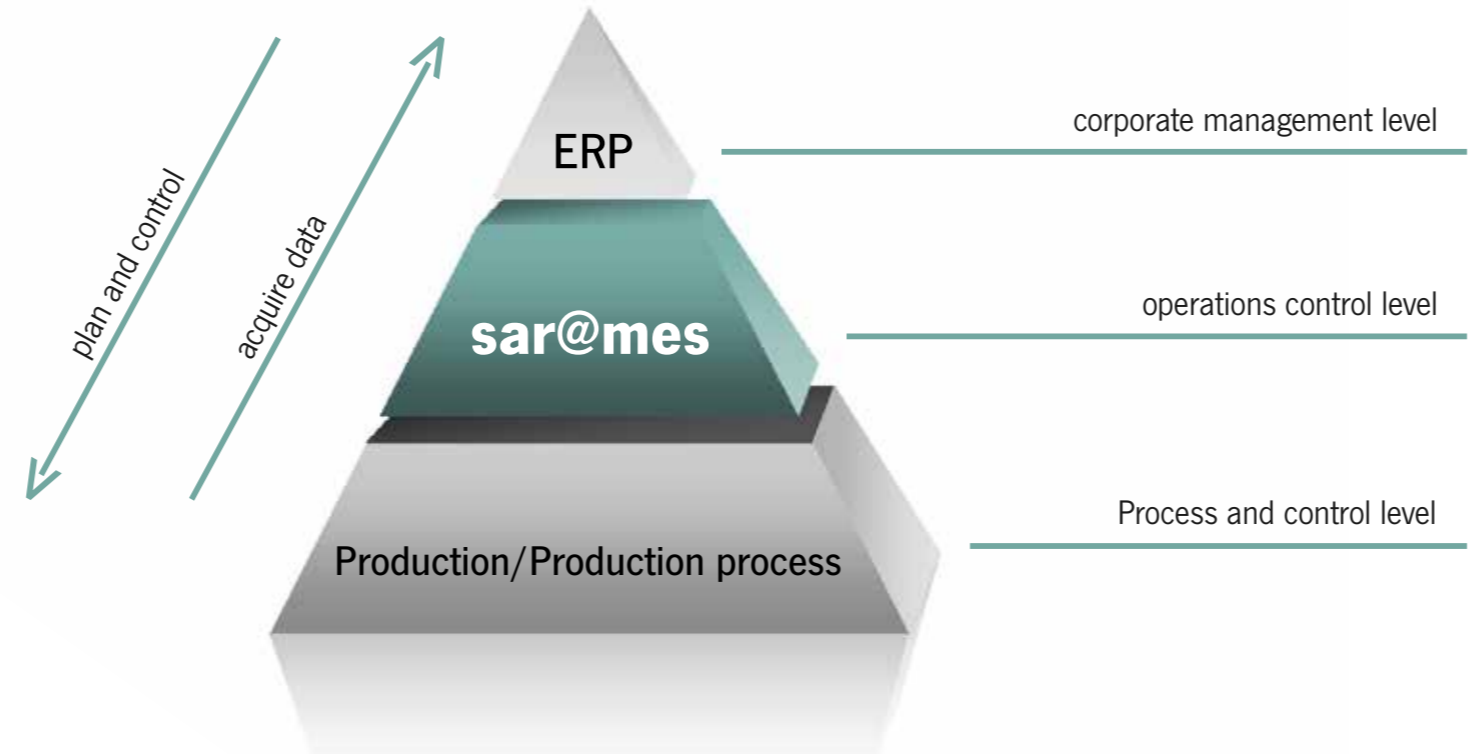
4 INDUSTRIE 4.0
READY



IT SERVICES

Manufacturing Execution System **sar@mes**

Mobile and flexible in real time – **sar@mes**



MES stands for Manufacturing Execution System (system for production management), which provides a link between company management, which is strongly focussed on commercial aspects, and production management with the process and production resources.

Maximise your company's potential – **sar@mes**



- Managing Director / Controller**
- Efficiency control based on real-time performance indicators
 - Benchmarking and analysis of key performance indicators (KPI/OEE)
 - Reliable database for investment decisions



- Production Manager**
- Transparency in the production process through MDA and PDA in real time
 - Improvement of plant efficiency
 - Comprehensive analysis of process loss with OEE



- Maintainer**
- Identifying and rectifying of faults early on
 - Support by means of maintenance work flows (mobile/smart glasses)
 - Better planning of maintenance
 - Complete documentation of all tasks that have been carried out



- Master craftspeople, machine and plant operators**
- Efficient and smooth planning of the production process
 - Keeping track of the orders and resources
 - Recognizing deviations from the plan by means of PDA (production data capture)
 - Recognizing faults and rectifying them (guided by the system)



- Quality Manager**
- Support by means of combining production and quality data
 - Reducing the number of rejects
 - Analysis of deviations

Manufacturing Execution System **sar@mes**

Excellent performance and scalability, ease of integration



The SAR Group is your competent partner for the entire production chain. Based on our expertise in process consulting, we offer you everything from a single source. From complex automation solutions and SAR's own production management system sar@mes to secure industrial networks.

What that means for you is that you benefit from security of investment, short commissioning times, a central point of contact and maximum transparency throughout the entire production process.



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<h3>Monitoring</h3> <p>Automated reports: OEE, capacity utilization etc. Assessing efficiency and improving it in a target-oriented manner Management of objectives and measures</p>	<h3>Quality assurance</h3> <p>Improving product quality Adhering to test cycles</p>	<h3>Master data</h3> <p>Management of plants, tools and users</p>
<h3>Planning optimisation</h3> <p>Monitoring machine data, production data and operating data in real time</p>	<h3>GUI/Visualisation</h3> <p>Customised visualisation of the factories, production halls and plants; display of data in real time</p>	<h3>Intra logistics</h3> <p>Processing and controlling logistic material flows / goods flows</p>
<h3>Energy management</h3> <p>Recording process parameters in real time, visualising them and issuing an alert, if required Starting and stopping of plants</p>	<h3>Maintenance</h3> <p>Support through maintenance work flows with mobile devices / smart glasses</p>	<h3>Management Cockpit</h3> <p>Important analyses, performance indicators and performance - live and mobile</p>
<h3>Alerting</h3> <p>Automated notifications by email, telephone or text message in case pre-configured limits are exceeded</p>	<h3>Quick detection of faults</h3> <p>Preventive maintenance and troubleshooting, detecting and rectifying faults efficiently</p>	<h3>Tracking & Tracing</h3> <p>Recording the processing status, order and material tracking</p>