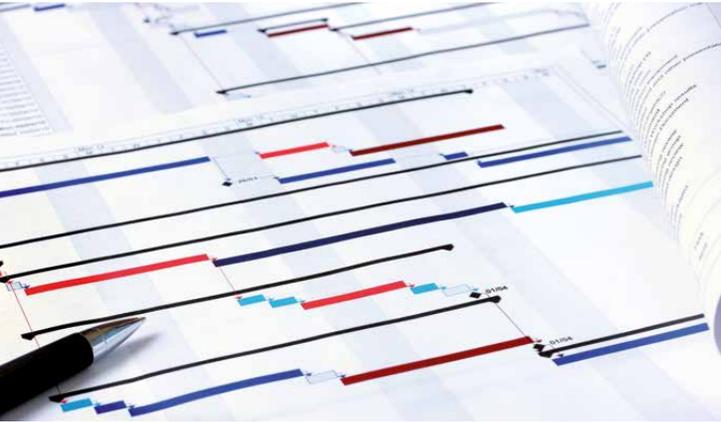


## PHASE 5: IMPLEMENTATION



For over 25 years, Trebing + Himstedt has offered implementation services relating to the production and automation process for the discrete production and process industry. The range of services runs the gamut from installation, to migration and updates to new software versions, to configuration and customization, to customer-specific programming – always accompanied by holistic project management, up to commissioning and beyond to support continuing development. Here, Trebing + Himstedt places particular emphasis on continuous documentation and training to ensure later transparency and maintenance. As a rule, the implementation is scalable and can easily be rolled out to other factories and countries at a later stage. During the entire SAP MES project, the project plan (including roadmap and milestones) will always be closely coordinated and communicated with the customer, so that you always maintain a complete overview.

## PHASE 6: OPERATION



During ongoing operation, it is crucial to provide support for continuous improvement and optimization. Conventional approaches include performance analyses and the adaptation of processes and workflows, including SAP Manufacturing training. We also examine for our customers whether a migration to a new software version makes sense and what advantages this offers. Upon request, we will provide a 24x7 support hotline with defined Service Level Agreements (SLAs) for your project-specific SAP MES solution, which provides support and advice, and when necessary, can provide remote maintenance for the system.

## About Trebing + Himstedt

Trebing + Himstedt is a specialist for SAP MES and IoT solutions as well as a strategic partner for SAP Connected Manufacturing. We support corporations and SME in various fields of industry. A smart connected production involves implementing end-to-end processes from SAP ERP to the individual automation Level of the machines. Our many years of experience on the shop floor and automation, combined with process know-how and expertise in business requirements, make us a preferred SAP consultant for the Industry 4.0.

## Experience + Expertise

With Trebing + Himstedt, you profit from over 25 years of project experience with integrated and standardized overall solutions, as well as customized solutions. We place special emphasis on the core topics of:

- Plant Performance Management
- Variant Production
- Traceability
- Predictive Maintenance



As an SAP Silver Partner, Trebing + Himstedt is licencing and implementing the SAP Manufacturing Suite solutions: SAP Manufacturing Execution (SAP ME), SAP Manufacturing Integration and Intelligence (SAP MII), SAP OEE Management and SAP Plant Connectivity (SAP PCo) as well as SAP Predictive Maintenance & Service (SAP PdMS) based on SAP HANA Cloud Platform. In addition to our services in the areas of MES modelling, concept consulting and services, we also offer installations, migrations and rollouts to various production sites. Moreover we do SAP Manufacturing trainings.

[www.en.t-h.de/sap-services](http://www.en.t-h.de/sap-services)

## SAP MES Projects

Successfully implemented



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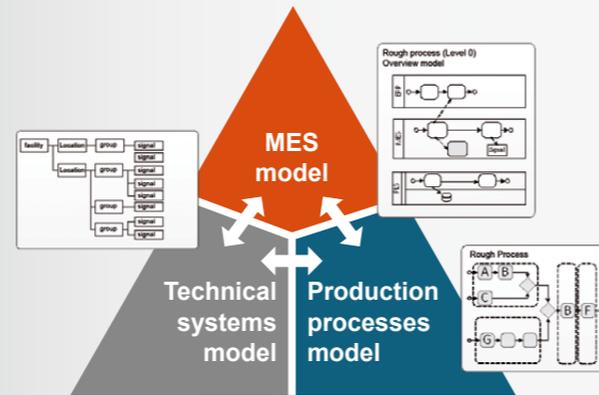


## PHASE 1: VALUE DRIVERS



Whether a project is concluded successfully or not depends first and foremost on what the measure of success is. What are the Key Performance Indicators (KPI)? That is why Trebing + Himstedt emphasizes agreeing upon and formulating goals and conditions with all stake-holders right at the beginning of a project. What is to be achieved, what is the exact challenge, and what are the project drivers? After all, the goal could be achieved by a simple (re)configuration of a user interface or the optimization of a line, up to the new greenfield project design.

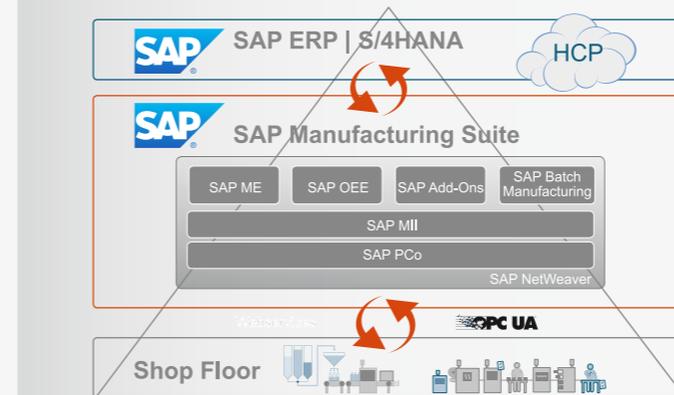
## PHASE 2: MES PROCESS MODELING



After the common goal has been defined, system dependencies must be identified. Together with the TU München Trebing + Himstedt has developed an extremely functional process model to define requirements for the product requirements document and the functional specification. SpeziMES provides a graphical description language for process modeling and specifying manufacturing execution systems. This supplements the purely textual description with three views: "MES model", "technical model" and the "production process model", in a single diagram so that everyone involved can easily orient themselves, even across departments.

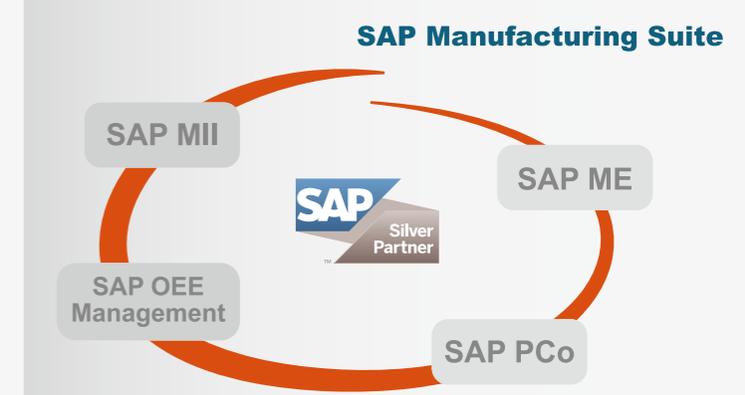
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## PHASE 3: SOLUTION ARCHITECTURE



Depending on the company's specification requirements for its discrete or batch process, best-practice approaches and the process model developed in phase 2 are used to develop an optimal solution architecture for the vertical integration of the shop floor with the ERP level. The central concerns are the integration with existing systems, the definition of interfaces, and the development of new models for a seamless flow of information. The suitability of the design for a later roll-out is considered at all times.

## PHASE 4: PRODUCTS



As an SAP partner for the SAP Manufacturing Suite consisting of SAP Manufacturing Execution (SAP ME), SAP Manufacturing Integration and Intelligence (SAP MII), SAP OEE Management and SAP Plant Connectivity (SAP PCo), Trebing + Himstedt offers 100% SAP-based solutions. Complemented by additional product solutions, for example rapidHistorian as the process data historian solution, an optimal product mix is created for achieving the goals defined in phase 1.

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