

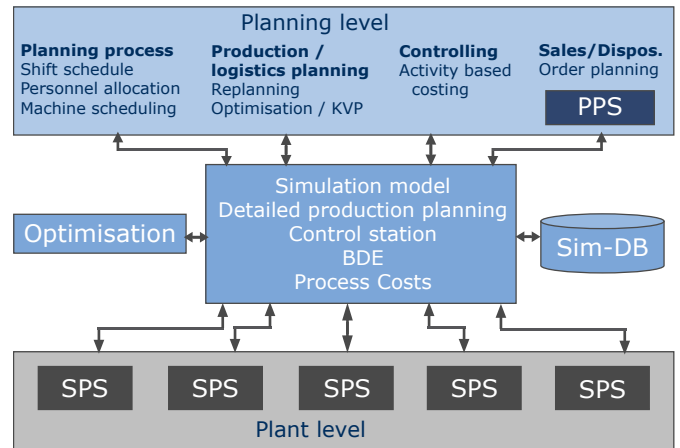
Application Control station



Control station with prognosis function

The visualisation of plants and the provision of controlling possibilities are among the classical functions of control centres. However, the effects of interventions in control are only conditionally conceivable. Particularly the long-term effect of the contacts as well as the dynamical combinations between different areas of the manufacturing are hardly appreciable.

For this reason SimPlan amends a component of simulation to the basic features of the control station. This component enables the staff to do certain control interventions virtually in a simulation scenario initially. Thus the effects can be made transparent. A comparison of alternative controls guarantees that the best solution is applied.

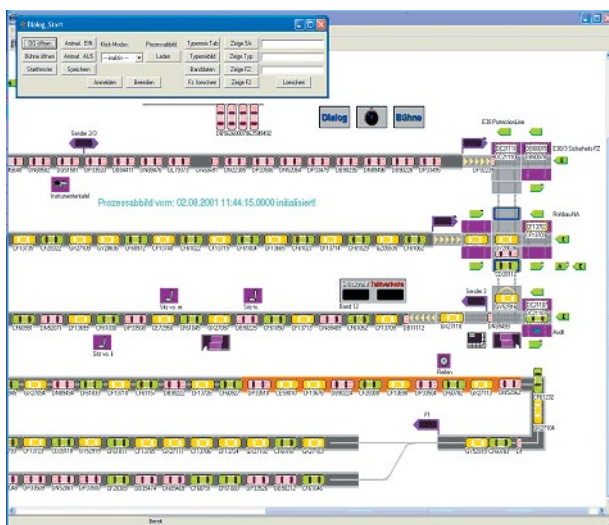


Schematic illustration of the control station principle

BMW counts on SimPlan's Solution

The Bavarian automotive manufacturer reports proudly on the profits of the pilot project at the final assembly at a factory. The very reduction of loss of stroke within the first months of the application justifies the internal effort. The forecast - at which point of time vehicles with additional equipment arrive at certain work centres - allows an exact personnel allocation.

At present BMW plans the construction of further simulation based control stations at other factories. The extension of the existent system, e. g. the connection to the manufacturing of seats, is already in process.



Example for a control centre of the final assembly of an automotive manufacturer

Manifold solutions

The application of a standard simulation software for the complete functional range of the control centre is a novelty regarding the products of SimPlan. Based on the software the prognosis function can be realised as well as well-known functions of the control centre, e. g. visualisation, statistics or control. With the aid of an interface developed by SimPlan local controls (SPC) are coupled.

Additionally the client receives a simulation model which can be used independent from the control station, e. g. for plannings or structural improvements. The spectrum of application of the simulation based control centre is multifaceted.

Wherever complex decisions have to be made during operating this application is suggestive. Modern hard- and software assures short reaction times of the simulation. For this reason short-term decisions can be supported as well.

Aims and benefits

- Validation of short- and middle-term decisions at the operational handling, e. g. manual interventions in control
- Visualisation of process image
- Forecast of the process over the upcoming period
- Assistance in maintenance, e. g. by visualisation of expected breakdowns
- Useable for dispositional purpose combined with the simulation based detailed production planning
- Less effort for the simulation of process changes as the control station already provides the model basis

Fields of application

Applicable as control centre in manufacturing, assembling or logistic systems of all sectors.

The SimPlan group

We consider ourselves to be a cross-sector full-range supplier with regard to simulation, accompanying you with extensive know-how, experience and modern methods in the optimisation of business processes.

Our services range from process analysis and consulting through material flow and logistics simulation, simulation-based detailed production planning to support with the commissioning of control software.

Furthermore we are a neutral distributor of simulation software and we will lend you our support with the selection, training and implementation in your company.

Why SimPlan?

- Objective and independent analysis
- Detailed knowledge of logistics and production processes with over 25 years project experience
 - Development and use of standards
 - More than 350 person-years experience in the field of simulation
- Sufficient capacities for prompt respond to your questions
- Close cooperation and project integration with high on-site quota
- Development of innovative solutions for the efficient handling of questions

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