



## Simulation of production and logistics processes

### Application and benefit

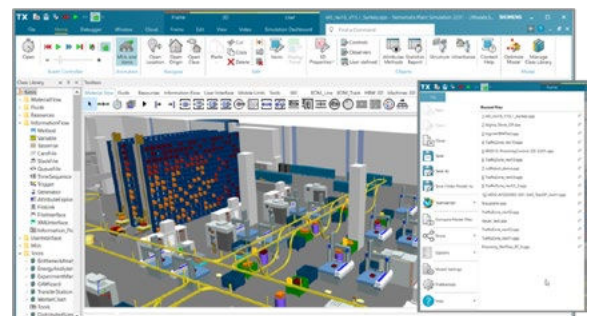


Plant Simulation is a standard software for the simulation of complex production systems and logistics processes. The software is characterized by object-oriented, graphical and integrated modeling, simulation and animation of systems as well as business processes.

Thus, Plant Simulation can be used to optimize material flow, resource utilization and supply chain processes at all levels of a company. Plant Simulation is an important component and the entry tool into the topic of the digital factory.

### Typical questions that can be answered with Plant Simulation:

- Will the required output be achieved?
- How can investment costs be minimized?
- Will the required output be achieved?
- How can inventories be reduced?
- What happens when the number of pieces changes?
- What is the best planning alternative?
- What is the best control strategy?



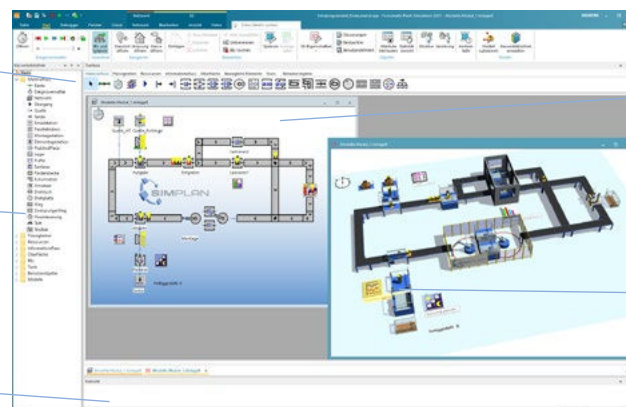
### Special features

- Mapping of material and information flows
- Event oriented
- Hierarchical and modular: clear structure supports complex models top-down or bottom-up
- Building block oriented
- Object-oriented: intuitive use of application objects
- Inheritance: create fast, stable and error-free models and modify central measurement variables.
- Flexible extensible: open architecture with multiple interfaces (ODBC, ActiveX, XLS, SDX Layout, HTML, etc.) and own programming language (SimTalk)

**Building block library**

**Class library**  
can be changed and extended as desired

**Console**

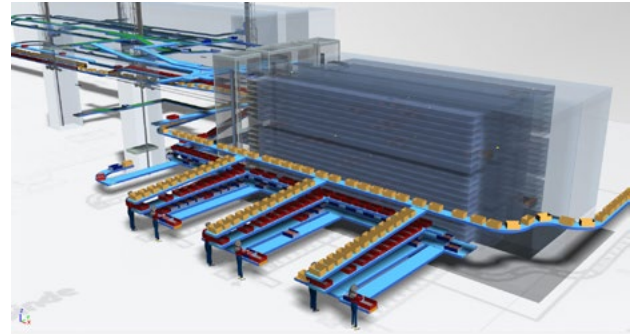


**Network**  
(the actual simulation model)

**used modules**  
Instances are inserted into networks, connected and parameterized

## Benefit

- Transparent analysis of complex systems
- Detection and elimination of bottlenecks that would otherwise require costly and time-consuming corrective measures would have required
- Calculation and comparison of real figures
- Computer-aided investment decisions
- Comprehensive analysis tools (Bottleneck Analyzer, Sankey diagrams, Gantt charts)
- 2D and 3D visualization and CAD integration
- Modules and class libraries can be flexibly extended and adapted



## Reference

The manufacturer of Plant Simulation is **Siemens Digital Industries Software**. SimPlan is a long-term and certified Siemens Smart Expert Partner.

## Services around Plant Simulation

- Use of the software in simulation projects
- License sales
- Trainings, workshops, webinars ([www.SimPlan.de/en/Trainings](http://www.SimPlan.de/en/Trainings))
- Development of application or industry-specific building block kits, e.g. Automotive, ware house/logistics, supply chain, value stream, shipbuilding
- Development of complementary tools, e.g. **SimAssist** for the presentation of results from experiment scenarios with Plant Simulation



**SimPlan AG was founded in 1992 as a service provider for the simulation of operational processes and today, with more than 120 employees, it is one of the leading German providers of simulation services.**

## Why SimPlan?

We are a cross-industry full-service provider for simulation, supporting companies of all industries with extensive expertise in the analysis and optimization of their business processes

- Objective and independent analysis
- Detailed knowledge in logistics and production from over 30 years of project work
  - Development and use of standards
  - Permanent advancement of simulation topics through research and development
- Excellent resources to respond quickly to your issues
- Close collaboration and project integration with a high level of on-site involvement
- Development of innovative solutions for the efficient handling of problems
- Neutral distributor for simulation software
  - Support in software selection and implementation as well as training

### Feel free to contact us

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