SIMULATION SOLUTIONS FOR
PRODUCTION AND LOGISTICS PROCESSES

Modelling and analysis of supply networks

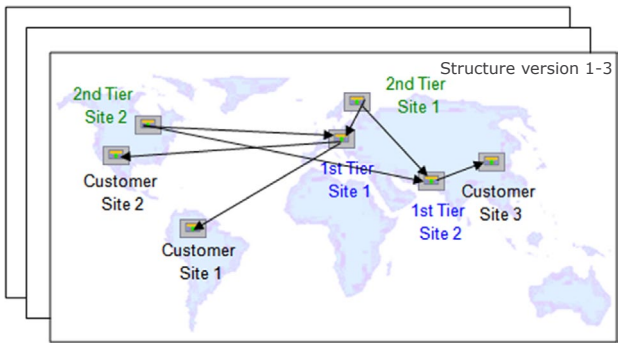
Simulation of complex supply chains and logistics networks

Safeguard your supply chain management decisions by means of simulation and capitalise on our know-how to discover potential for optimisation within the field of logistics:

- Identify bottlenecks and potential savings:
  For example, analyse various transport options in one simulation model.
- Are there any pending changes to your bills of materials? The model can be used to depict time-dependent bills of materials and supply relationships.
- Utilise the openness of the simulation tools in order to let our optimisation tools carry out an automatic parameter optimisation.
- Bottlenecks and excess capacities can be recognised through clear diagrams already during the experiment. All relevant statistics are automatically set up and a scenario manager supports the experiment design.

Areas of application within the supply chain management

- Long-term structural and process planning
  - Layout of location concepts, (storage) capacities, transport relations
  - Evaluation of (individual) order policies and planning approaches
- Medium-term planning based on sales forecasts / production program planning
  - (Continuous) planning of safety stocks, resources, etc.
- Short-term planning
  - Bottleneck analyses (loss of transport relations, machines)



Issues

- Flexibility
- Service level
- Profitability

Own locations

Storage / production capacity
Production costs
Planning / control

Suppliers

Storage / production capacity
Price
Planning / control
Delivery times

Supply relationships

Bill of materials
Transport options
Planning / control parameters
Service level
Disturbances

Our service: Analysis, intelligibility and know-how

We offer you continuous support with your supply chain management within the scope of carrying out complex simulation studies:

- Joint performance of a process analysis and determination of relevant operating figures
- Support with data acquisition
- Modelling using a simulation tool
- Visualisation of crucial process steps
- Determination of an experiment design
- Evaluation of the results and deduction of design proposals
- Parameter optimisation
- Presentation and documentation
- Migration of the results into SCM planning and collaboration systems

References

- Planning of the European distribution network of ZF Trading
- Analysis of the supply chain of Hella Innenleuchten-Systeme
- Location planning for new products by the Dräxlmaier Company
- Review of the floating stock concept (Degussa)
- Development of a tool for supplier selection (Audi)
- Development of the European production and distribution network of the Beiersdorf 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
  - ➢ Continuous advancement of simulation topics by research and development
- Sufficient capacities for prompt respond to your questions
- Close cooperation and project integration with high on-site part
- Development of innovative solutions for the efficient handling of questions

Where to find us

SimPlan Group
Head office
Sophie-Scholl-Platz 6
63452 Hanau
GERMANY

Phone: +49 6181 40296-0
Fax: +49 6181 40296-19
Email: info@SimPlan.de
Web: www.SimPlan.de

German Branches
Braunschweig • Bremen • Dresden • Holzgerlingen • Munich • Regensburg

Subsidiary companies
SimPlan Integrations GmbH, Witten (GER)
SimPlan Systems GmbH, Maintal (GER)
SimPlan Austria, Neufelden
SimPlan China, Shanghai
induSim GmbH, Langenau (GER)