Simulation library

SimPath

Visualization and analysis of material flows

Application and benefit

In addition to the classic simulation and emulation of logistics systems, the continuous observation and optimisation of real systems is becoming more and more important.

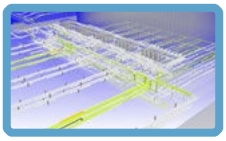
Especially in complex systems, it is therefore important to analyse and visualise the material flow in detail and to provide a corresponding dynamic key figure system that can be used for real and simulation data as well as for planning data. The SimPath Library enables the simple construction of a conveyor system in 3D and the quick transfer of data. Supplemented by data storage in an SQLite inMemory database and a multitude of support functions, even complex systems with very high data volumes can be handled with the SimPath Library.

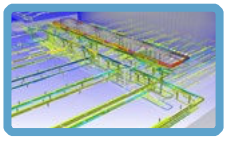
With SimPath, material flows can be analysed at a very high level of detail, material flows visualised and material flow information displayed. Project-specific requirements can also be easily integrated via clearly structured interface functions.

The following functionalities are available

Replay/Trace Visualisation of the deviating execution and selection/selection of certain group control

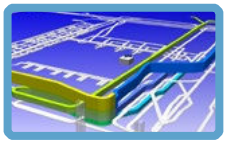
Visualisation of the routing and display of the time consumption between two reporting points

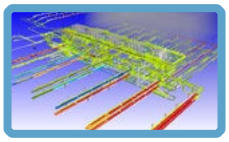




Sankey Visualisation of absolute volume flows on an hourly basiss

Visualisation of material flows to and from selected reporting points, separated by source and destinationl **Statistics**





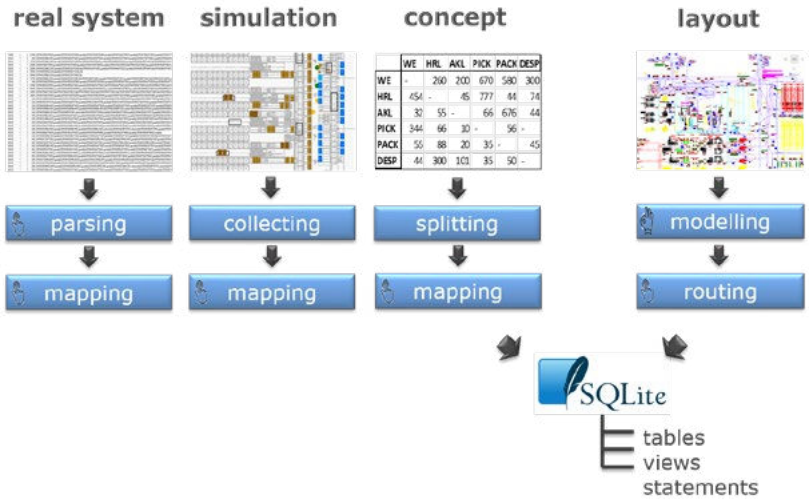
Loops/Cycles Visualisation of the loop factor on an hourly basis

Selection and visualisation of individual reporting points within a selected control system **Information**

However, the SimPath concept does not only focus on the analysis of real plants.

It also offers the possibility to analyse data:

- from a simulation model and visualise it. For this purpose, there are already corresponding data collector objects that can be easily integrated into the simulation model.
- map from the abstract material flow diagram of a planning concept to the plant



More information about SimPath you can also find under [www.SimPath.de.](http://www.SimPath.de)

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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