Modelling and Analysis of Supply Chains

SimChain

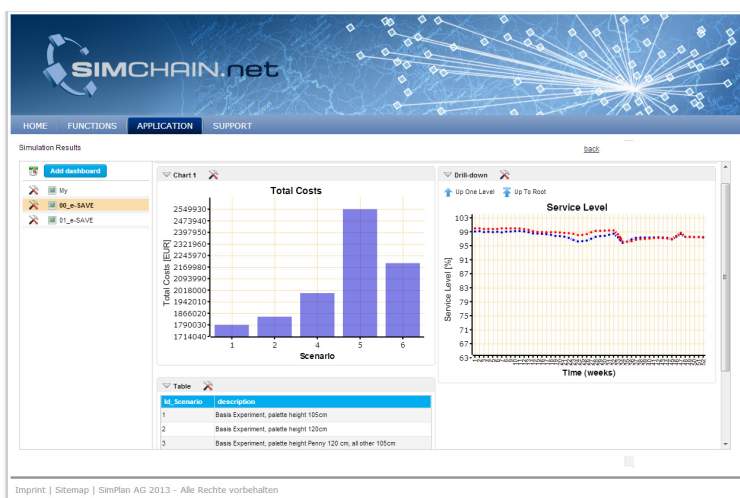## The innovation for more transparency and optimisation

A simulation tool for safeguarding decisions in supply chain design as well as for uncovering optimisation potential in logistics:

- With SimChain, monetary evalution of network design alternatives is quick and uncomplicated with the help of usual logistic key figures (incl. all CO_2 emissions within the supply chain).

- SimChain shows bottlenecks and saving potentials, e.g. the user can investigate various transport alternatives with the help of the model.

- Are your parts lists changing? SimChain can visualize time-dependent parts lists and supply relationships.

- Use SimChain's flexibility to optimise parameters automatically with our optimisation tools.

- With its easy-to-read diagrams, SimChain shows bottlenecks and overcapacities already during the experiment. All relevant statistics are automatically created. A szenario manager assists in the experiment design.

Consistency through integration and intelligent interfaces

SimChain stands for consistency throughout planning, commissioning and operations of complex supply chains and logistics networks.

SimChain Webapplication

- All structural data can be im- and exported. The model is generated with the click of a button.

- User friendly interfaces for import, visualisation, modification and export of structure data.

- A scenario manager supports the experiment design and the carrying out of experiments.

- Simple integration of external data from ERP-/PPS systems, e.g. with the help of ETL tools (extract, transform, load).

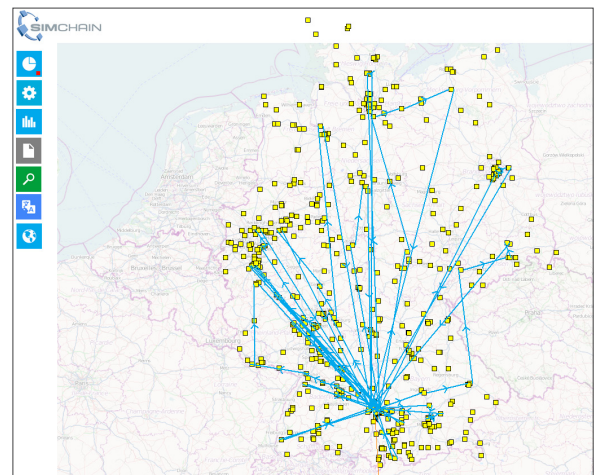## Our service: analysis, comprehensibility and know-how

We offer our customers continuous support to aid them in the execution of complex simulation studies with SimChain:

- joint realisation of a process analysis and determination of relevant key performance indicators
- Support during data collection
- Modelling with SimChain
- Visualisation of important process steps
- Determination of the experiment design
- Analysis of the results and derivation of design recommendations.
- Parameter optimisation
- Presentation and documentation
- Migration of the results to SCM planning and collaboration systems

Ideal combination of knowledge and tools

Based on our 25-year experience in process optimisation and simulation we have developed this supply chain management solution built on an innovative simulation tool:

- SimChain meets the requirements on modelling and analysis functionalities found necessary during numerous logistics and supply chain management projects carried out by SimPlan.

- SimChain is object-oriented and based on the simulation software Plant Simulation of Siemens plc (Tecnomatix).
  Models can be expanded easily and adjusted individually at any point in the design process.

- Naturally SimChain can be operated altogether independently from operative SCM software solutions.

SimChain supply network

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