

Digital visualisation, analysis and improvement of dynamic value chains

Value stream mapping is an established method for examining economic value creation in manufacturing and for identifying, reducing and eliminating non-value adding processes and workflows. Value Stream Mapping is a modern method of process optimisation based on the methods of Lean Management. The aim is to optimise the value chain simply and quickly. The VSM library, developed by SimPlan, supports this.

Example projects in the solar industry

- Increase awareness of production variability
- Increase production quality
- Increase production rate
- Increase production efficiency

The goal is to optimise production resources, control layout and batch sizes to ensure a steady flow of production without buffer inventory build-up while maintaining quality of order entry and delivery.



Why should you carry out a value stream analysis in plant simulation?

- Reduction of the costs for data acquisition by reducing the number of objects that describe the processes through predefined logic blocks.
- Reduction of the analysis effort through automated modules.

Simulation allows users to examine the dynamic effects of the value stream that remain hidden in the static, paper-based mapping of the value chain.

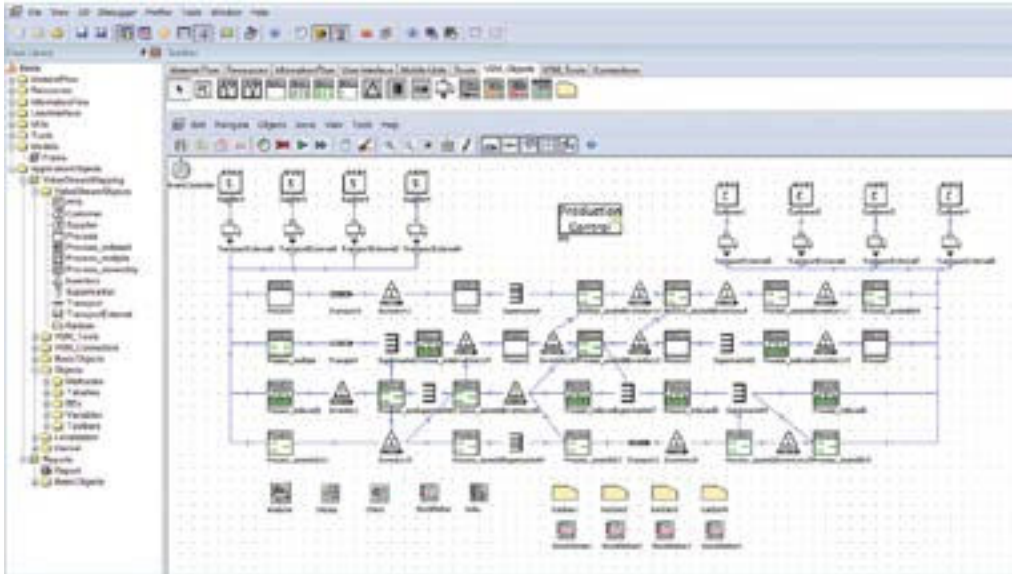
The traditional, static value stream analysis is extended to include the critical time element of inventory availability. This allows you to map dynamic fluctuations in daily production due to batch sizes, set-up processes, product variations or other disruptions.



The dynamic material flow simulation in Plant Simulation makes it possible to reduce the number of products in production and thus the capital required for robust production. and ensure that natural fluctuations in production do not affect the ability to deliver.

Value stream library in Plant Simulation

- Predefined symbols based on the general standard
- Fast and efficient modelling of typical scenarios through block libraries
- Results can be displayed in diagrams and graphics
- Analysis of throughput, resource utilisation and bottlenecks
- Predefined dialogues with configurable user objects



Surface VSM (Source: Siemens Industry Software)



To make working with the VSM library even library even easier, we have developed the SimVSM app. You can download it from any store.

You can find more details at www.SimVSM.de.

Why SimPlan?

We are a cross-sector full-service provider for simulation, supporting companies from all sectors with extensive expertise in the analysis and optimisation of their business processes.

- Objective and independent analysis
- Detailed knowledge of logistics and production from over 30 years of project work
 - Development and use of standards
 - Permanent further development of Simulation topics through research and development

- Excellent resources for a quick response to your questions
- Close cooperation and project integration with a high on-site share
- Development of innovative solutions for Efficient processing of problems
- neutral distributor for simulation software
 - Support with software selection and introduction and training

Feel free to contact us

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