

easy2sim

MATERIAL FLOW SIMULATION  
FOR PRODUCTION & WAREHOUSE



## WHAT IS EASY2SIM?

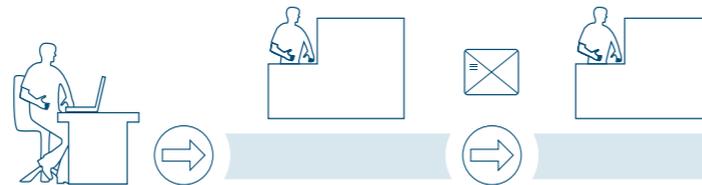
*easy2sim* is a software dedicated to modeling and simulation of complex industrial installation, with emphasis on the material flow for production and storage. As a result, the planning, evaluation and optimization of logistic processes is possible using simple means.

Realistic scenarios can be easily depicted with *easy2sim*; a model run and statistical results are immediately available.

By simply varying the parameters, different scenarios are immediately compared in order to find optimal solutions. Thus prior to the realization of a project, it can be shown where optimization potential is hidden or where possible bottlenecks can be effectively prevented.

## EASY MODELING

In the modeling process, components are selected from different libraries and combined into an overall system. This is followed by the definition of parameters such as response times, failure probabilities or available resources. After connecting the individual model components corresponding to the real processes, the model is complete. An appropriate visualization is generated automatically and can be adapted easily. Existing production layouts can be used as background and components such as conveyor belts and production machines can be conveniently arranged thereon.



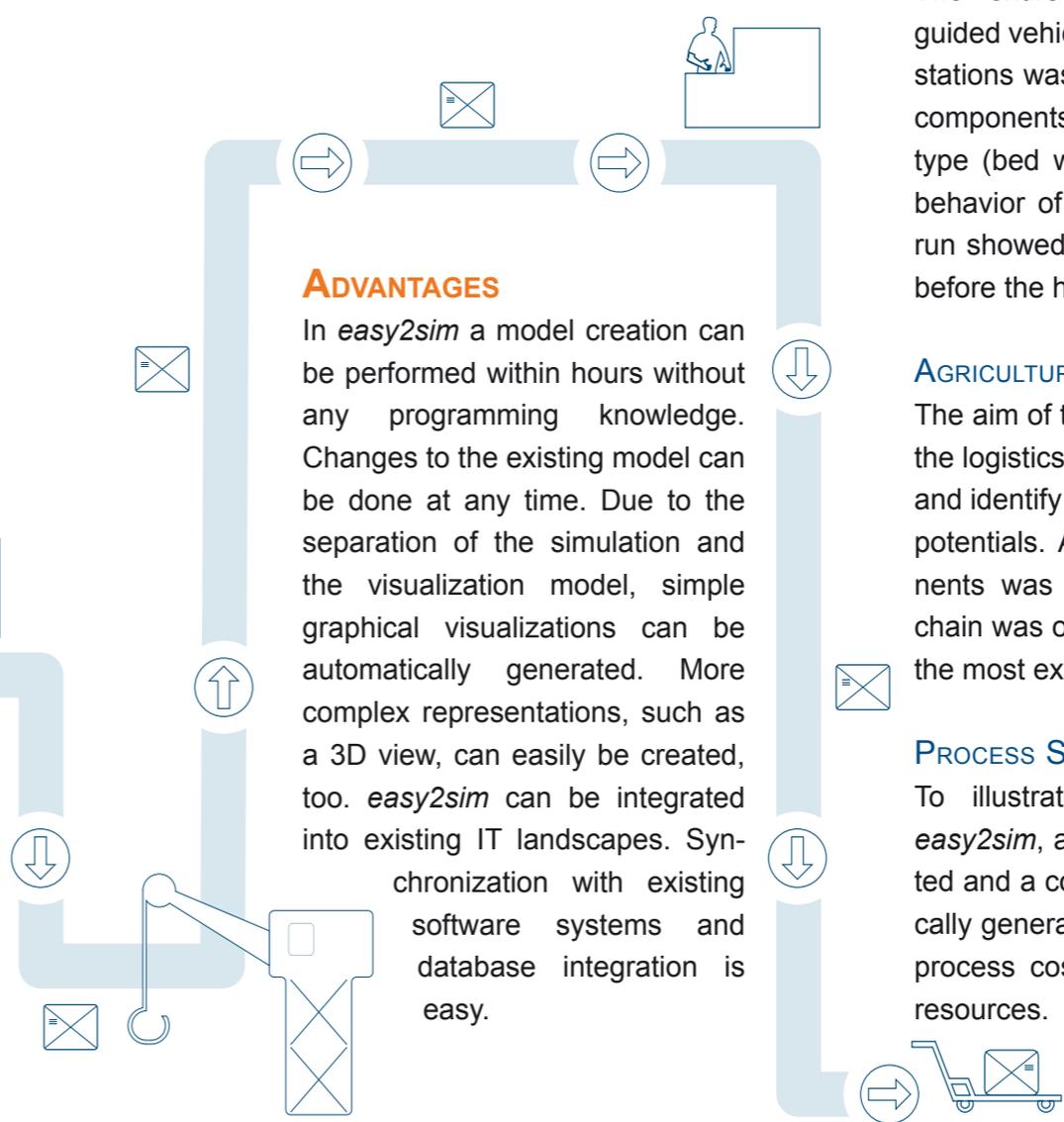
## RESULTS

The simulation run gives information about, e.g., bottlenecks in the logistics process. Thus, waiting times for individual components are immediately perceived. Logged data of individual components can be exported and further processed. This

allows information, such as the utilization of a production machine or the waiting time before a stacker crane, to be represented graphically with Excel.

## ADVANTAGES

In *easy2sim* a model creation can be performed within hours without any programming knowledge. Changes to the existing model can be done at any time. Due to the separation of the simulation and the visualization model, simple graphical visualizations can be automatically generated. More complex representations, such as a 3D view, can easily be created, too. *easy2sim* can be integrated into existing IT landscapes. Synchronization with existing software systems and database integration is easy.



## DECISIONS - BASED ON FACTS

## SELECTED PROJECTS

### HOSPITAL SIMULATION

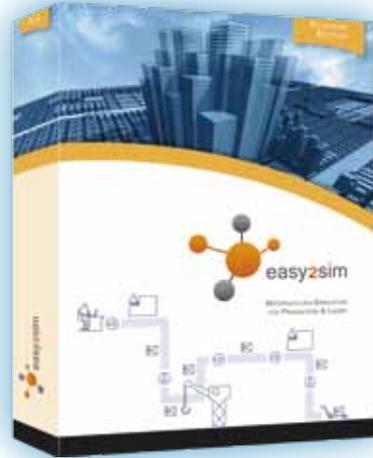
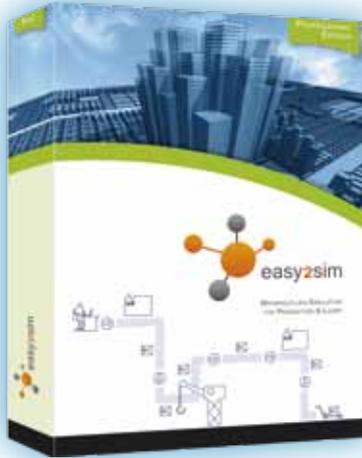
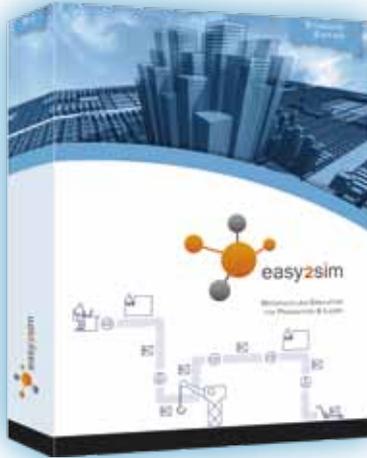
The entire plant layout including automated guided vehicles and all transmitting and receiving stations was modeled with *easy2sim*. Then basic components were implemented for each station type (bed wing, supply, buffer stations) and the behavior of the station depicted. The simulation run showed a bottleneck that could be corrected before the hospital opened.

### AGRICULTURAL PRODUCTION PROCESS

The aim of the project was to model and simulate the logistics of the agricultural production process and identify possible optimization and cost-saving potentials. A library with the necessary components was developed in *easy2sim*. The supply chain was optimized by reducing the idle times of the most expensive components.

### PROCESS SIMULATION FOR STEEL PRODUCTION

To illustrate a tundish process chain with *easy2sim*, all the necessary information is collected and a complete simulation model is automatically generated. Simulation helped identifying the process costs and evaluating the availability of resources.



Softwarepark 35 | 4232 Hagenberg | Austria  
[easy2sim@risc-software.at](mailto:easy2sim@risc-software.at) | [www.easy2sim.at](http://www.easy2sim.at)