Simio Overview and Product Catalog

▶Simio

F o r w a r d   T h i n k i n g

Simio At a Glance

Over 30 years of experience in simulation and scheduling software

Simio was founded by a highly experienced team. C. Dennis Pegden, Ph.D., Founder and CEO of Simio, has over 30 years of experience in simulation and scheduling and has been widely recognized as an industry leader.

Over 800 universities in over 70 countries use and teach Simio

Leading U.S. and international universities are teaching Simio to ensure talent with Simio simulation and scheduling experience.

Software allows processes and systems to be viewed in 2D, 3D, and virtual reality

Simio provides a true object-based 3D modeling environment that lets you construct your 3D model in a single step from a top-down 2D view, and then instantly switch to a 3D view of your system. It can also pair with Oculus Rift 3D headsets to walk through your model virtually.

Offers a solution that uses the cloud for faster and more portable results

Simio Portal Edition brings the power of Simio to the Cloud. With Simio Portal Edition, you can publish and share simulation and scheduling results over the web. Also, for the first time, you can execute large experiments with blazing speed.

Worldwide support network ensuring the best experience with Simio

Simio has a worldwide network of partners and employees who receive accolades for excellent and timely support that is available through phone, email and user forums.

Example Applications of Simio

Transportation, Supply Chain and Logistics

Simio modeled the logistics of Cosan, a Brazil agriculture manufacture, and was able to predict a reduction in a capital expenditure **saving over $500,000**!

Oil & Gas

Shell Gulf of Mexico chose Simio because **the scheduling tool was built on a spatially aware, discrete event simulator** that was capable of assessing risks with schedules.

Aerospace

Simio helped BAE Systems **meet production deadlines** and now is used for a variety of forecasting and scheduling challenges including decreasing overtime, developing training goals, writing proposals, and evaluating capital investments.

Manufacturing

To aid in the production of its NV200 Van, Nissan relied on Simio's discrete-event simulation software to **validate the layout of assembly lines** in the auto maker's Barcelona plant.
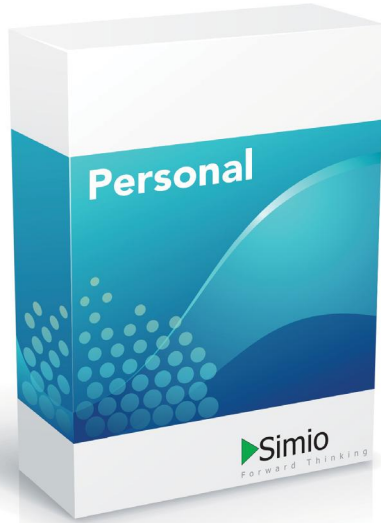
Healthcare

Nebraska Medical Center was able to model in Simio and identified improvements, such as, **increasing operating room utilization** and reducing surgeon and patient travel distances.

Airports

With the aid of Simio, Vancouver Airport Authority was able to see that the introduction of kiosks for customs increased capacity, reduced strain, and **saved over $100,000,000**!

Personal Edition

Simio Personal Edition is a no cost version of Simio. This version of Simio puts no limits on what you can model and is fully functional for models up to 5 models, 30 objects and 30 steps! It is perfect for you to explore and learn Simio's simulation and production scheduling capabilities. You can also use the Simio Personal Edition to open and run models that have been built by the Simio Team Edition or higher.

Major Features and Applications of Simio Personal Edition are:

✔ Advanced 3D modeling/animation with built-in interface to the expansive Google Warehouse graphics library.

✔ Flexible resource modeling including move-able workers, dynamic selection rules, and flexible work schedules.

✔ Advanced experimentation, analysis, and reporting features for defining scenarios and interpreting results.

✔ Combine objects and processes within a model to customize object behavior.

✔ Rapid modeling of complex work-flows using the Standard Object Library.

✔ User-defined relational data tables for interfacing to enterprise data.

✔ View custom dashboard results created by others.

✔ Advanced material handling including accumulating/fixed conveyors and on-demand/fixed route vehicles.

✔ Support for 3rd party add-ins such as optimization (OptQuest).

✔ Graphically create processes for unlimited modeling of complex modeling situations.

Design Edition

Simio Design Edition is our standard product and includes the Standard Library for getting started with Simio, but adds a unique and powerful capability (patent pending) that allows you to modify the logic of your objects using add-on process-oriented logic. This version of the software also provides you with the ability to create and distribute your own custom modeling libraries. Simio Design Edition is the ideal product for professional modelers that want to have full control over complex process logic or want to develop new modeling libraries focused on specific applications areas.

Major Features and Applications of Simio Design Edition are:

- ✔ Unlimited model size (limited by your computer resources).

- ✔ Advanced material handling including accumulating/fixed conveyors and on-demand/fixed route vehicles.

- ✔ Support for 3rd party add-ins such as optimization (OptQuest).

- ✔ View custom dashboard results created by others.

- ✔ Combine objects and processes within a model to customize object behavior.

- ✔ Advanced 3D modeling/animation with built-in interface to the expansive Google Warehouse graphics library.

- ✔ Flexible resource modeling including move-able workers, dynamic selection rules, and flexible work schedules.

- ✔ Advanced experimentation, analysis, and reporting features for defining scenarios and interpreting results.

- ✔ Share the software between multiple users via a floating license. (Option)

- ✔ Create and use custom object libraries for specific application areas.

- ✔ Rapid modeling of complex work flows using the Standard Object Library.

- ✔ User-defined relational data tables for interfacing to enterprise data.

- ✔ Serve as Full Runtime software for models created in Design or Team Edition.

- ✔ Graphically create processes for unlimited modeling of complex modeling situations.
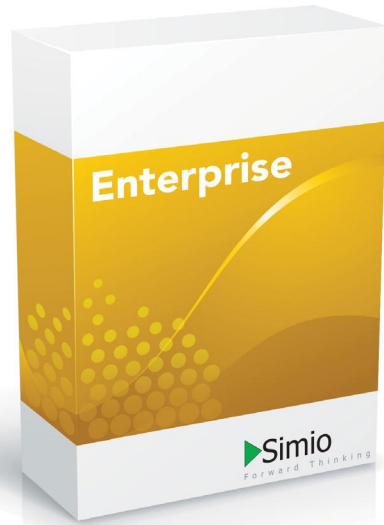
Team Edition

Simio Team Edition has the same functionality provided by Simio Design Edition, but also lets you build and distribute models using the freely available Simio Evaluation version as a runtime platform. Models built with the Simio Team Edition will run and generate results with the Simio Evaluation version. Simio Team Edition is ideal for consultants that want to deliver a running model to their customer without requiring them to purchase Simio. Simio Team Edition also provides the capability to distribute scenarios and replications across other computers in your work group.

Major Features and Applications of Simio Team Edition are:

- Unlimited model size (limited by your computer resources).

- Advanced material handling including accumulating/fixed conveyors and on-demand/fixed route vehicles.

- Support for 3rd party add-ins such as optimization (OptQuest).

- View custom dashboard results created by others.

- Combine objects and processes within a model to customize object behavior.

- Create custom dashboard reports for others to use.

- Advanced 3D modeling/animation with built-in interface to the expansive Google Warehouse graphics library.

- Flexible resource modeling including move-able workers, dynamic selection rules, and flexible work schedules.

- Advanced experimentation, analysis, and reporting features for defining scenarios and interpreting results.

- Share the software between multiple users via a floating license. (Option)

- Create and use custom object libraries for specific application areas.

- Distribute scenarios and replications across other computers in your work group.

- Rapid modeling of complex work-flows using the Standard Object Library.

- User-defined relational data tables for interfacing to enterprise data.

- Serve as Full Runtime software for models created in Design or Team Edition.

- Graphically create processes for unlimited modeling of complex modeling situations.

- Create models for use with Interactive Runtime using the free evaluation version of Simio.
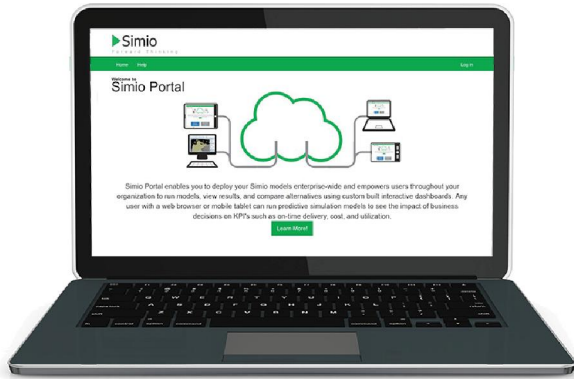
Enterprise Edition

Simio Enterprise Edition adds a powerful set of patent-pending features to extend the Simio Team Edition capabilities into daily operational support. Extend the use and lifespan of your previously built Simio models or build and execute new models for Risk-based Planning and Scheduling (RPS). Simio Enterprise Edition includes custom tailor reports, graphs, and tables for use by schedulers. Now you can reduce your risk and costs by analyzing your schedules in ways never before possible!

Major Features and Applications of Simio Enterprise Edition are:

- Unlimited model size (limited by your computer resources).

- Advanced material handling including accumulating/fixed conveyors and on-demand/fixed route vehicles.

- Support for 3rd party add-ins such as optimization (OptQuest).

- View custom dashboard results created by others.

- Combine objects and processes within a model to customize object behavior.

- Create custom dashboard reports for others to use.

- Resource and Entity Gantt charts to graphically illustrate resource usage and constraints over time.

- Works with Schedulers View in Simio Edition for deployment of a customized tool for schedulers.

- Advanced 3D modeling/animation with built-in interface to the expansive Google Warehouse graphics library.

- Flexible resource modeling including move-able workers, dynamic selection rules, and flexible work schedules.

- Advanced experimentation, analysis, and reporting features for defining scenarios and interpreting results.

- Share the software between multiple users via a floating license. (Option)

- Create and use custom object libraries for specific application areas.

- Distribute scenarios and replications across other computers in your work group.

- User-definable Targets with both deterministic (plan) and stochastic (risk) analysis.

- Supplement standard reports like Resource Dispatch with custom dash-board reports on planning data.

- Rapid modeling of complex work-flows using the Standard Object Library.

- User-defined relational data tables for interfacing to enterprise data.

- Serve as Full Runtime software for models created in Design or Team Edition.

- Graphically create processes for unlimited modeling of complex modeling situations.

- Create models for use with Interactive Runtime using the free evaluation version of Simio.

- States and Targets in tables support incorporation of output data into tables.

- A Constraint Log to aid in identifying bottlenecks and determining how best to improve a facility's operation.

Portal Edition

Simio Portal Edition brings the power of Simio simulation to the Cloud. With Simio Portal Edition, you can instantly access multiple powerful simulation processors for running simulation experiments and generating plans. Access Simio Portal Edition from any internet connected device using Microsoft's Azure platform, or from Simio's desktop products without having to install any extra hardware or software. Now you can instantly share model results over the web!

Major Features and Applications of Simio Portal Edition are:

✓ Publish and share simulation and scheduling results across the web

✓ Custom reports and dashboards

✓ Access results virtually anywhere with a web browser or touch enabled device

✓ No additional software required

✓ Rapidly execute experiments

✓ Unlimited number of users per organization to view results

✓ Executes on Microsoft Azure

Additional Product and Services

OptQuest

OptQuest for Simio is available as an add-on to the standard Simio products. OptQuest tightly integrates with Simio experiments and uses state-of-the-art algorithms, including Tabu Search, Neural Networks, Scatter Search, and Linear/Integer Programming to generate and evaluate scenarios in search of optimal configurations.

Academic Edition

Simio Academic Edition is a fully functional version of Simio that is available to students and faculty. Simio educational grants make it easy to obtain, learn and teach what students need to be successful. The resources of the Simio Academic Community support your objectives to stay ahead of the technology curve and meet the demands of next generation technology. With software, course development, texts and discussion forums, the Simio Academic Community gets you off to a fast start.

Training

Simio Training consists of standard and/or customized training classes that can be taught at any time, location or virtually. These training classes offers the opportunity to focus the material on the types of applications that you encounter. The training classes can also be extended to include "jump-start" consulting on one or more specific modeling applications.