Multi-Method Simulation Software

AnyLogic

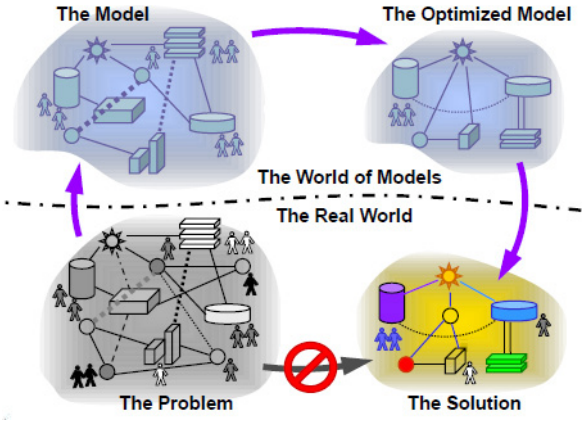
Features and Benefits

AnyLogic is a very flexible, dynamic simulation tool developed by *The AnyLogic Company*, suitable for all fields and business areas where simulation methods are commonly applied. This means that AnyLogic supports system dynamics as well as process-oriented (discrete event) and agent-based methodologies. These methods can also be combined freely within one model.

With this software, almost all corporate fields of application can be modeled, as for example production, logistics, business processes, market and competitors, and supply chain.

Special Characteristics

- Reduction of development costs and -times
  - fast integration of pre-configured simulation elements with the comprehensive object libraries
- Makes it possible to design various types of models with one single tool
  - agent-based, system dynamic, event-oriented, continuous or dynamic models
- High flexibility and unlimited expansion possibilities due to operating system-independant native Java environment
  - AnyLogic runs on Windows, Mac and Linux
- easy-to-use animation functionalities
- Java applets are generated for running a model - no runtime licence is necessary
  - The Models can be run anywhere and anytime.
- Extensive features for data analysis and evaluation using business graphics objects, like for example bar and pie charts and stack diagrams and/or time-series plots and histograms



Graphic: Why modelling? (The AnyLogic Company)

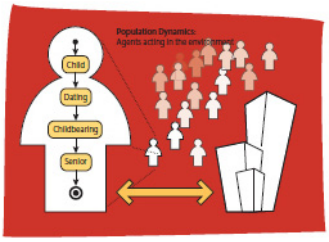
The behaviour of systems and facilities can be analysed by running experiments and comparing different scenarios to expose weaknesses. However, these types of tests are often very expensive and might not even be possible without interrupting normal operations.

Here it is useful to represent the real world within a virtual simulation model environment and to experiment with this model without any risk. The results and solutions can eventually be transferred back to the real system.

Multi-Method-Modelling

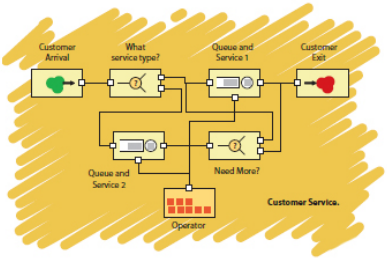
Agent-based approach

- Many small units (agents, e.g. people, companies, projects, products) have decision- or action capabilities. The behaviour of the system results from the behaviour of its individual agents
- Application examples: consumer behaviour, social networks, economies, business processes



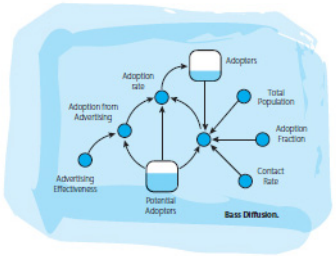
Discrete event approach

- Used to consider individual steps within the chain of events that forms the system in its entirety
- Simulation of complex processes possible
- Application examples: depicting processes in production and logistics



System dynamics approach

- Holistic analysis and simulation of complex and dynamic systems
- Long-term and strategic view that uses a high degree of abstraction
- Application examples: supply chain management, inventory management, population development



Why SimPlan?

- Objective and independent analysis
- Detailed knowledge of logistics and production processes with more than 25 years of project work
  - ➢ Development and use of standards
  - ➢ Continuous further development of simulation topics through research and development
- Excellent resources for prompt responses to your questions
- Close cooperation and project integration with high on-site quota
- Development of innovative solutions, efficiently solving challenges during project work

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