



advanced clean production
Information Technology AG

The logo for InFrameSynapse Simulation Suite features a stylized icon of a globe with a white arrow pointing upwards and to the right, followed by the text 'InFrameSynapse Simulation Suite' in a bold, sans-serif font. The text is white and set against an orange background.

InFrameSynapse Simulation Suite

Simulation and optimization of factories and logistics systems

A close-up photograph of a white, humanoid robot head. The head is positioned in profile, facing left. It has a smooth, matte finish and a circular sensor array on the side of its head. The background is dark and out of focus, with another robot head visible in the lower-left corner.

www.acp-it.com

InFrame Synapse Simulation Suite

Simulation and optimization of factories and logistics systems

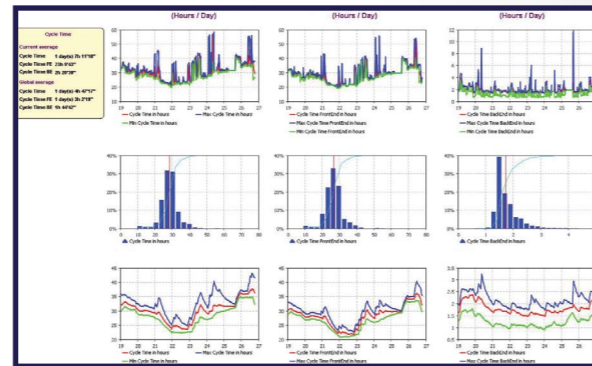
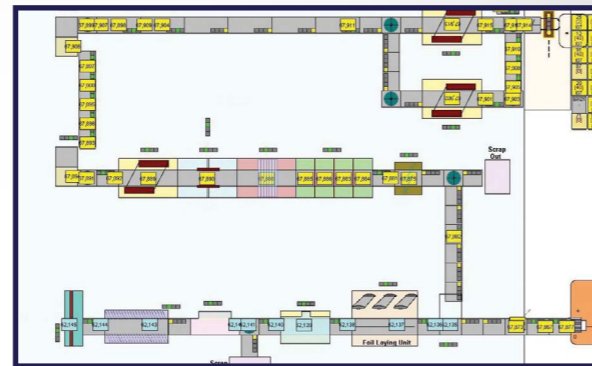
InFrame Synapse Simulation Suite is a powerful set of libraries developed by acp-IT on top of AnyLogic standard libraries in order to extend existing basic functionalities to complex real life industrial scenarios.

acp-IT accompanies you during design, simulation and optimization of your complex manufacturing systems. We are a competent and experienced partner for material flow and logistics planning with proven know how for analysis, layout, simulation and optimization of production sites as well as their mapping in the digital factory.

We also use advanced software tools for capacity planning, production and material flow simulation, job planning, machine scheduling planning and the integration of these tools into your business workflows.

Why InFrame Synapse Simulation Suite?

With InFrame Synapse Simulation Suite, acp-IT has built a powerful factory simulation library, oriented on easy modeling, flexible experiment configuration, fast simulation and reliable performance analysis.



Features

- Includes most relevant equipment types
- Includes transportation and storage equipment
- Individual configuration of state models for each equipment
- Drag & drop layout modeling
- Predefined reports and online charts for throughput, work-in-process and utilization monitoring (Overall Equipment Efficiency, OEE)

The InFrame Synapse Simulation Suite consists of interoperable applications and libraries, configurable on user needs. The key characteristics of InFrame Synapse Simulation Suite are:

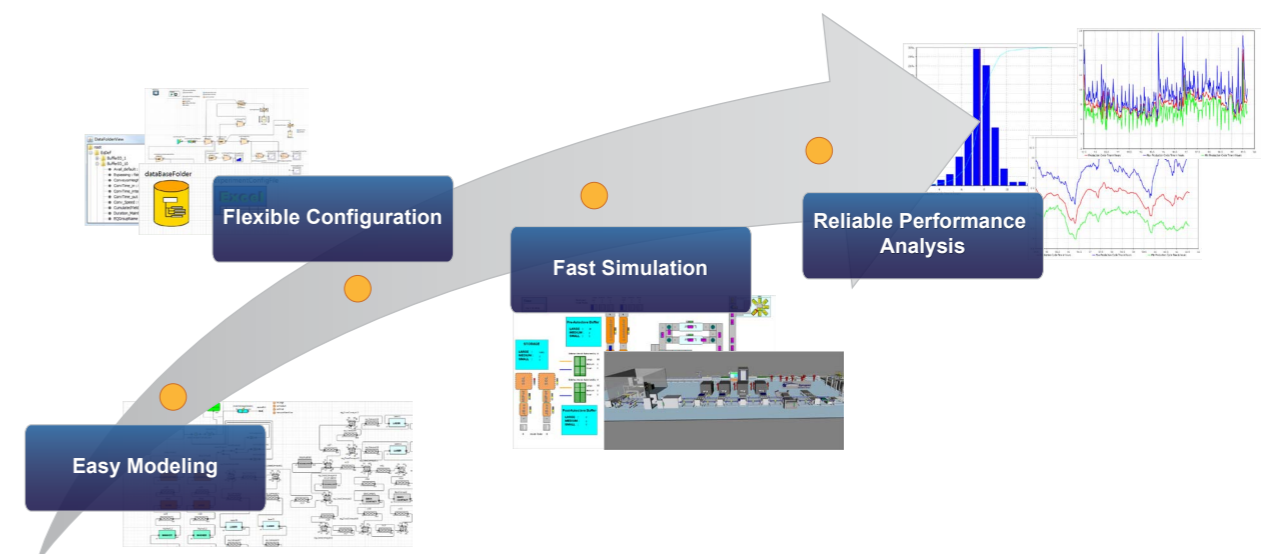
- Easy to use
- Flexible for configuring
- Allows a fast simulation
- Offers reliable performance analysis

FAB Optimization

Optimizing a factory is a goal to be achieved in acp-IT projects. From a digital FAB point of view this e.g. means increasing the productivity by lowering tact time, and

for our clients this can be translated in higher profit with fewer costs. Different areas of the simulation process are taken in consideration in order to obtain the optimal model, main focuses being on:

- Concept verification
- Finding possible bottlenecks and explain possible deviation from static calculations
- Providing solution for achieving the desired throughput
- Optimizing the proposed solutions in order to reduce costs
- Parameter variation
- Parameter optimization



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