

# Artificial Intelligence



## AI technology in use for process optimization in production and logistics

Artificial intelligence is now an established technology for optimally designing or controlling processes in production, logistics, supply chains or other areas. In the meantime, there are various AI processes that are used or offered in ready-made solutions (e.g. via Pathmind, Bonsai, H2O.ai):

- Reinforcement Learning
- Classifier

The particular challenge in the application of AI methods is usually the selection and training of a solution

(e.g. in-house development). As a rule, this cannot and should not be done on real systems, since extreme events can occur, especially in the initial learning phase. In order to exclude this risk, simulation methods are used, which in combination with the AI application represent an optimal solution:

- A simulation model provides realistic (dynamic) data of a possible scenario (typical challenge when using AI methods).
- The model serves as a training partner to show decisions and their effects to the AI in a very short time.
- Extensive and risk-free pre-testing of AI solutions before they are released.
- Comparison of AI solutions or solution methods.
- Quantitative evaluation of AI methods to other possibly less expensive alternatives (classical optimization methods).



SimPlan provides the necessary technologies for such an environment, up to the point that we develop appropriate models and building blocks for our customers, so that they can find, evaluate and implement their AI applications without risk without in-depth simulation knowledge.

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