A photograph of a steel truss bridge, likely a suspension bridge, with white cables and a blue sky background. The image is partially obscured by a green wave-shaped graphic at the bottom.

# AI & Simulation: Hype or real leverage?

**7 insights from practice**

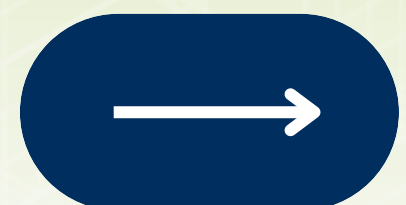
[www.simplan.de](http://www.simplan.de)



# Tip 1: The data cleaning crew

AI can check, clean and structure large amounts of data from ERP and MES more quickly.

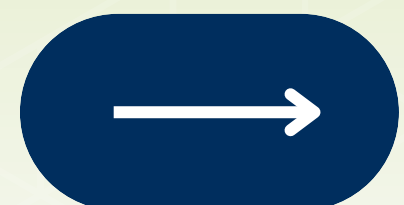
➤➤➤ This reduces manual effort and speeds up the start of simulation projects.



## **Tip 2: Make results available faster**

**AI can predict typical simulation results without having to fully calculate every scenario.**

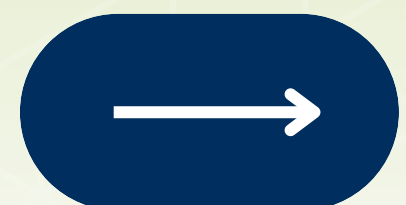
**»» This allows initial assessments to be made in seconds instead of minutes or hours.**



## **Tip 3: Intelligent variant search**

**Instead of blindly simulating thousands of scenarios, AI can pre-filter promising options.**

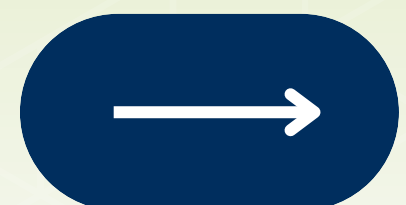
**»» The simulation then specifically examines the relevant variants.**



## **Tip 4: Correlation is not causation**

**AI recognizes patterns in data. The simulation models real-world relationships and mechanisms.**

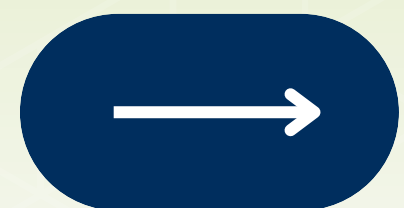
**➤ Both should be consciously combined.**



## Tip 5: Avoid the black box

**Production decisions require verifiable results.**

**»»» AI proposals must remain explainable and verifiable, otherwise the basis for decision-making is lacking.**

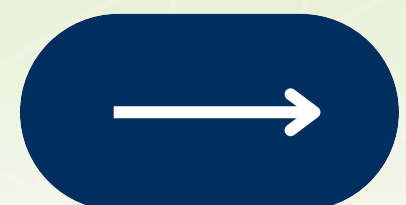


## Tip 6: Think hybrid

**The greatest benefit arises from the combination.**



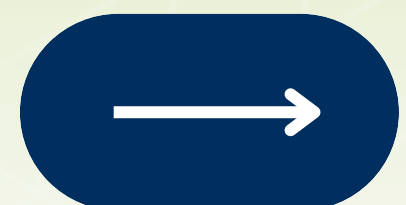
**AI assists with data and pre-selection; simulation delivers reliable results.**



## Tip 7: Start small

**Pilot projects help to identify meaningful areas of application.**

**»» This allows risks to be reduced and experience to be built up in a targeted manner.**



**AI does not replace simulation. It complements it specifically where speed and data processing are crucial.**



**Questions about implementation?**

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**Do you want to know more?**

**[www.simplan.de/en/blog](http://www.simplan.de/en/blog)**