

Faster into production

7 Tips

**How simulation shortens
your time to market**

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Start early instead of reacting late

Simulation is often only planned once the layout and processes are already in place.
→ Then there is no time for real optimization.

Tip: Integrate simulation right at the start of the project. This allows for early evaluation of options and more informed decisions.



Compare variants digitally

“Which solution works better?” This question can be answered in advance through simulation.

Tip: Use the digital twin to test layouts, material flows, and resource utilization risk-free before construction or ordering.



Identify bottlenecks before they become real

Time losses often arise from bottlenecks, but often only become apparent when production starts.

Tip: With simulation, you can identify critical points early on and plan buffer elements specifically.

Preparing for commissioning

Downtime costs money, especially for new plants.

Tip: Use simulation for virtual commissioning: Test the process under real-time conditions, fine-tune controls, and avoid expensive corrections during startup.



Plan ramp-up safely

Startup phases are prone to disruptions.

Tip: Simulate ramp-up scenarios with realistic parameters.

This way you can see how much output can be achieved under which conditions.

Use the model multiple times

Many people build for a project and then do not use the model again.

Tip: Plan a flexible model from the start: for training, re-analyses and future process changes.



Simulate production planning realistically

Good production planning on paper is often insufficient. In reality, even small deviations can quickly lead to disruptions, bottlenecks, or downtimes.

Tip: Incorporate real-world constraints such as shift patterns, setup times, material availability, or staffing bottlenecks into the simulation. This turns the plan into a robust scenario and avoids unexpected disruptions when production starts.



**Get into operation faster
without compromising
on quality.**

Simulation and digital twins help
to significantly shorten your time
to market.

Would you like to learn more?

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