



More resilience in production planning

**Stable processes
thanks to digital
security**

What to do without simulation? What happens if the plan no longer works?

In reality, things rarely go as planned: shift cancellations, material delays, new products. Without digital support, there is often not enough time to evaluate alternatives in a structured manner.

Excel and other tools often only suffice for the "target" scenario. But what happens in the "what if" scenario?

The result: improvisation instead of sound adaptation.

The following tips show how simulation can help.

Identify bottlenecks before they disrupt operations

Whether it's a shift model, machine utilization, or material flow: simulation shows where critical bottlenecks can arise before they become a problem in operation. This way you can build stability into the planning process.

Compare variants objectively

How stable is your plan in the event of outages or peaks in demand?

Simulation makes it possible to evaluate alternatives realistically and based on facts.

Plan buffer quantities specifically

Buffers cost space, capital and flexibility.

Simulation shows where they are really needed and where you can save resources through targeted planning.

Consider delivery delays early on

What happens if parts don't arrive on time?

Digital models help to identify critical dependencies and make plans more robust accordingly.

Integrate new products safely

New products change processes. Simulation shows the impact new cycles, parts lists or setup times have on existing lines and where you need to take countermeasures.

Plan maintenance appointments better

Maintenance can be integrated into the plan early on. Simulation shows when interventions will cause the least disruption and whether they will unintentionally cause new bottlenecks.

Consider personnel as a planning factor

The availability and qualifications of employees also influence stability.

Simulation can be used to check whether your planning remains viable even in the face of personnel fluctuations.

**Those who plan robustly
can react more quickly.**

Simulation helps production planners
make more informed decisions.

It makes production systems more
resilient to fluctuations and
disruptions without increasing the
effort required in day-to-day
operations.

**Questions about
implementation?**

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