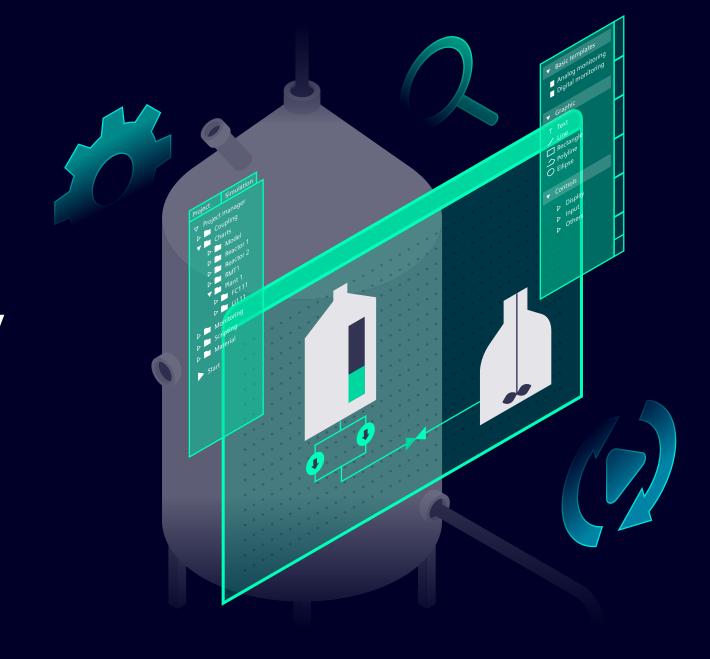
Elevate life cycle efficiency with **SIMIT**

Real time simulation with industrial automation

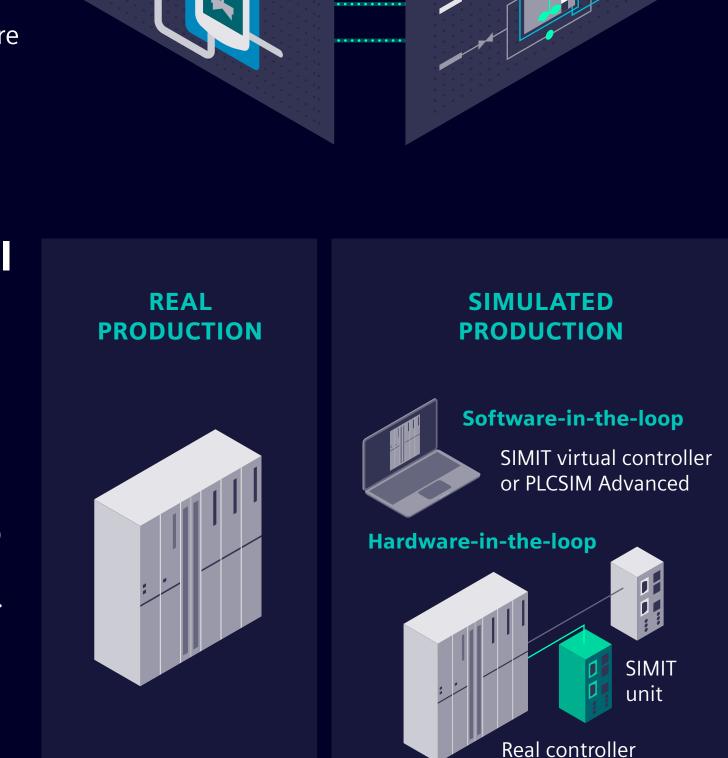
Simulation of your reality The simulation platform

SIMIT enables comprehensive tests of automation applications and offers realistic training environments for operators before real systems go into operation.



We make the virtual production real SIMIT enables easy coupling

between the simulation and the automation environment, which can be done either with the automation systems' real hardware (hardware-in-the-loop) or with the integrated virtual controller (software-in-the-loop).

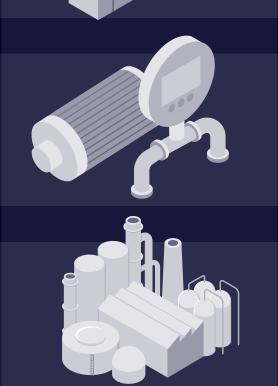


DEVICE LEVEL

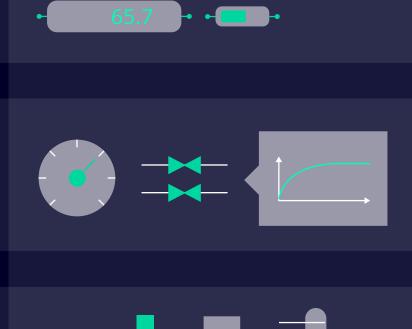
Simulation of signals

SIGNAL LEVEL

Simulation of behavior and reaction of devices and sensors



AUTOMATION



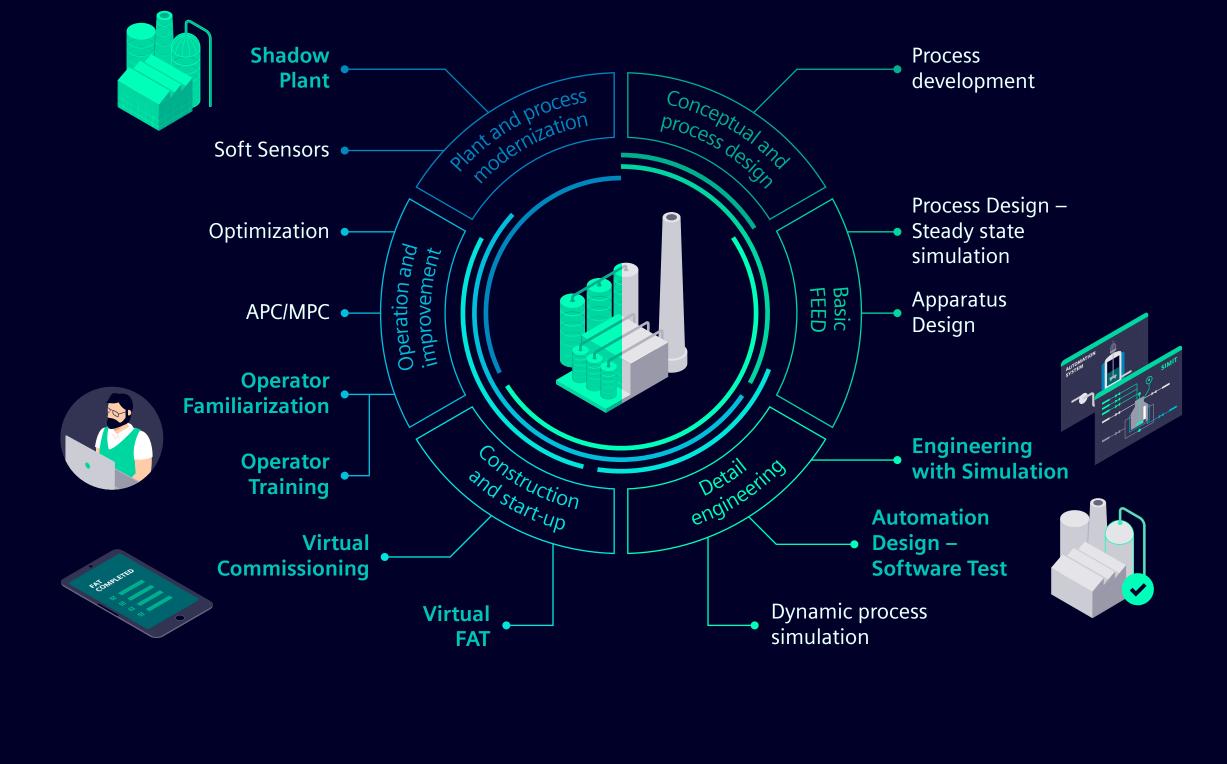
Simulation of technological behavior

PROCESS LEVEL

From development of a new product to optimization of the system during live operation: Simulation with SIMIT lets you test and optimize in a virtual environment with no risk before you implement everything for real – and it will all work right away.

More efficiency throughout the complete system lifecycle

Benefit from simulation along the lifecycle



and purpose. Predefined models ensure that plants and factories can be simulated fast, efficiently and realistically. Save time, effort and costs

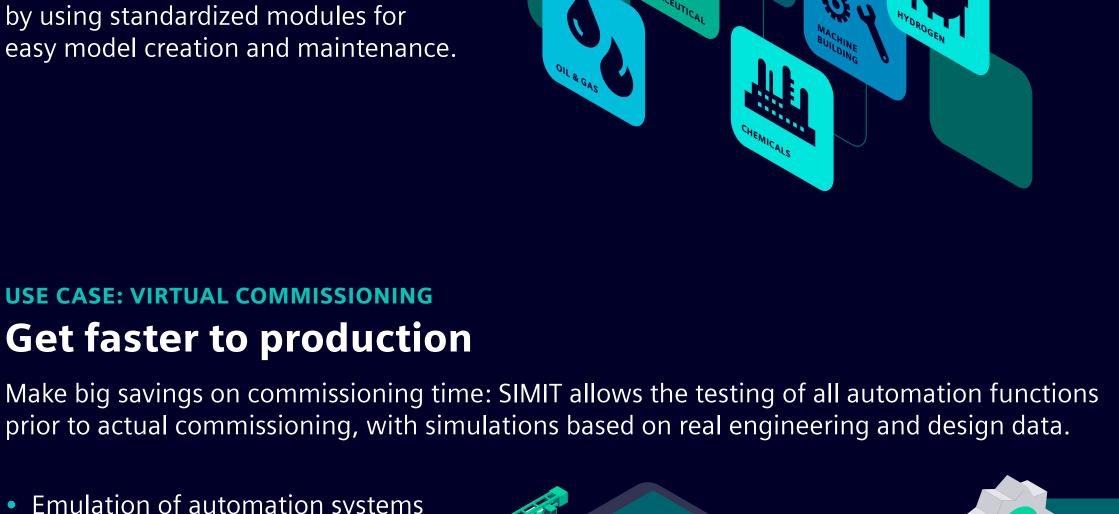
The right solution for all industries

by using standardized modules for easy model creation and maintenance. **USE CASE: VIRTUAL COMMISSIONING**

Get faster to production

Domain-specific libraries guarantee

optimal adaptation to requirements



Software module tests Simulation of I/O signals, sensors, actuators

Emulation of automation systems

- Test of control concept, sequences and recipes

USE CASE: SHADOW PLANT

Execution of virtual FAT

Ensuring high plant availability Once process or production plants are up and running, changes can have unforeseen and costly consequences, including shutdowns. Testing changes with SIMIT's digital twin

Allows for virtual deployment

and test of planned changes

Validation of interfaces to 3rd

and improvements

Digital image of automation and process Based on original SIMATIC PCS 7 / SIMATIC PCS neo / TIA Portal project

party systems (e.g. SAP, MES)

of the plant increases safety for staff and equipment and ensures plant availability.



know-how for

efficient and safe

plant operation

domain specific simulator (e.g. gPROMS) or third-party simulators

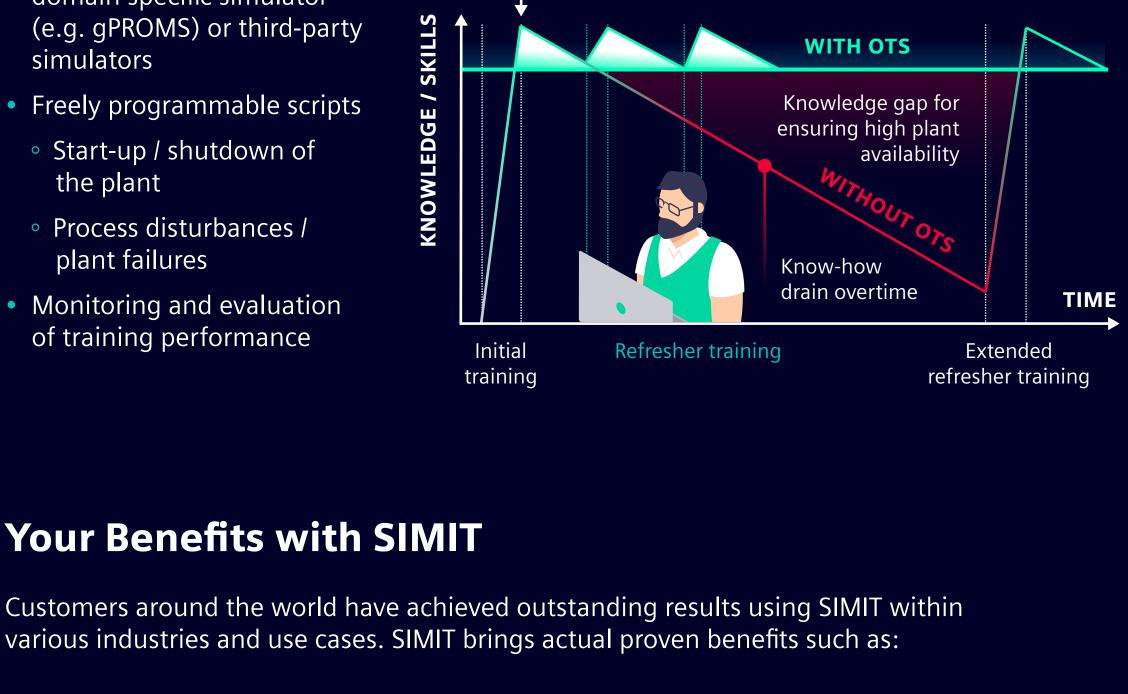
Start-up / shutdown of the plant Process disturbances /

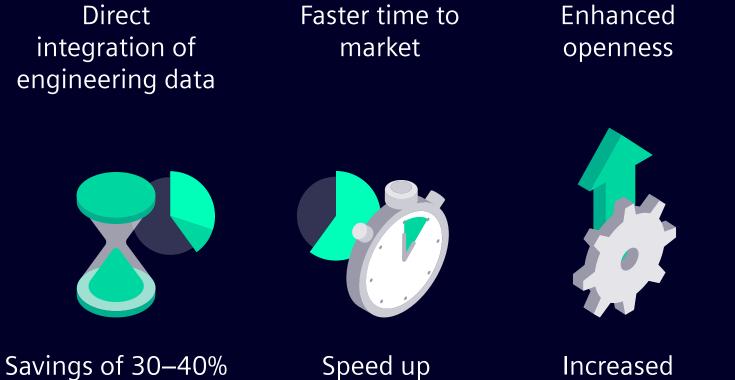
Freely programmable scripts

automation system

Process model in SIMIT or

plant failures Monitoring and evaluation of training performance Initial training





of in-house DCS testing time





productivity

by 12%

High plant

Increased quality



Improved

Increased

operator