Digitalization in Process Automation



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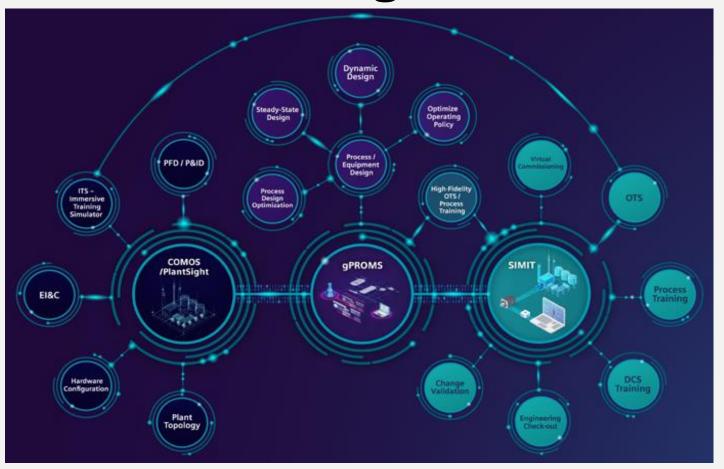
Digitalization in Process Automation

Holistic Simulation offer SIMATIC PCS neo -new innovative DCS





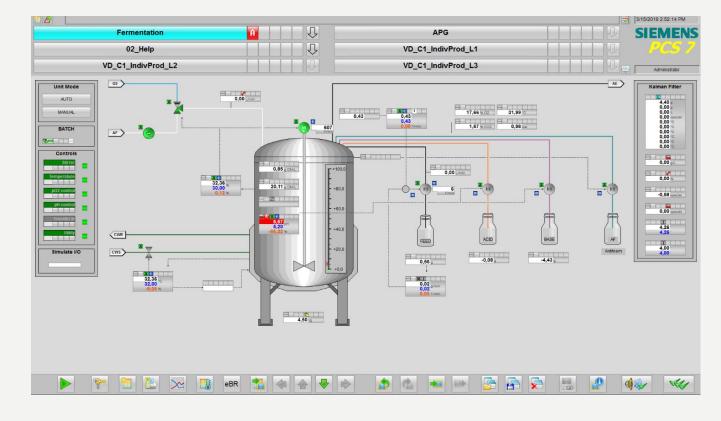




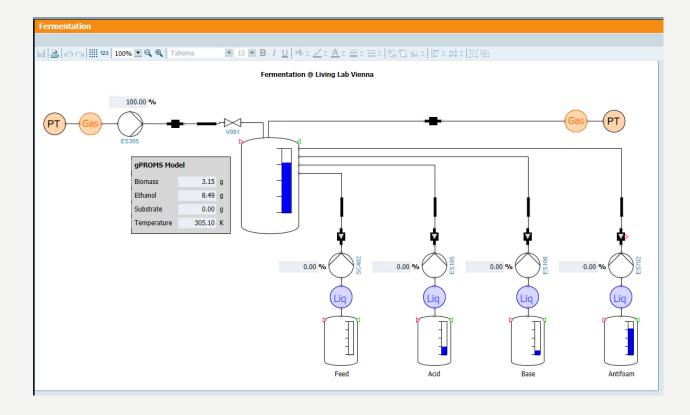
Challenges

- How to find the best process design?
- How to reduce risks and time during engineering?
- How to increase reliability, productivity and engineering quality?

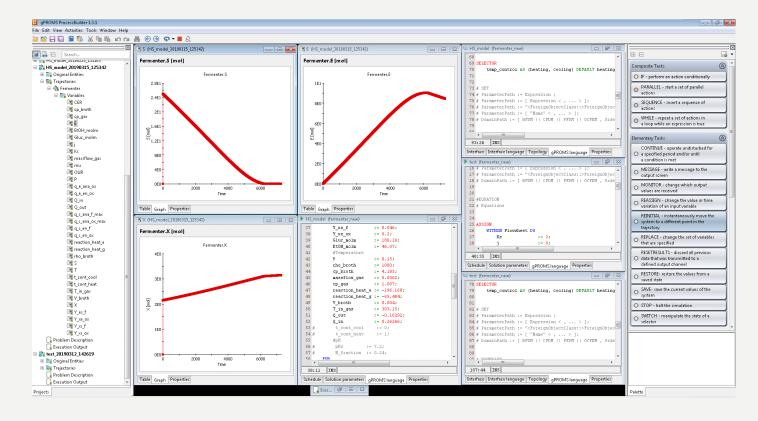
















Pressure-Flow Network

- Ideal liquid and ideal gas
- First interaction of Operator and Process

Realistic process behavior

- Modelling of chemical properties
- Realistic simulation of process operations

(SIMIT)

(SIMIT-Flownet)

(SIMIT-ChemBasic)

(SIMIT-Solution Lib)

(with PSE integration)

Low Fidelity

High Fidelity

Device Level

 Process response of I/O Devices

First-principle process behavior

- · Process response of all equipment
- Mass and energy balances

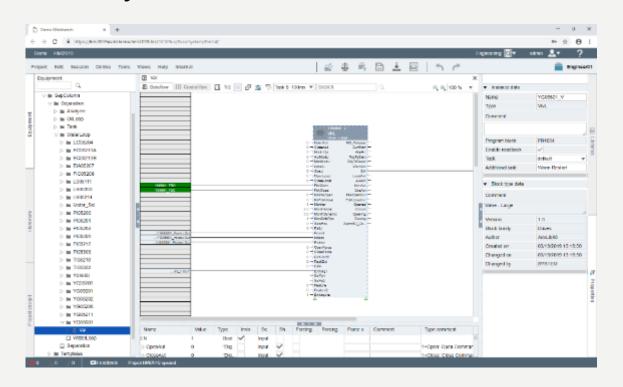
Detailed physics/chemistry

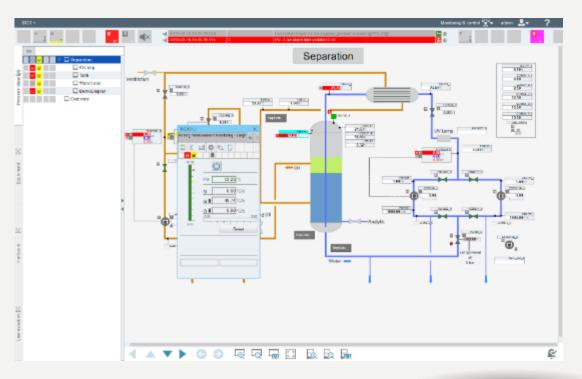
 Modelling of specific phenomena of processes





Totally Web-based Process Control System





SIMATIC PCS neo –new innovative DCS



"Immediate system access at any time, from any location and any end device!"

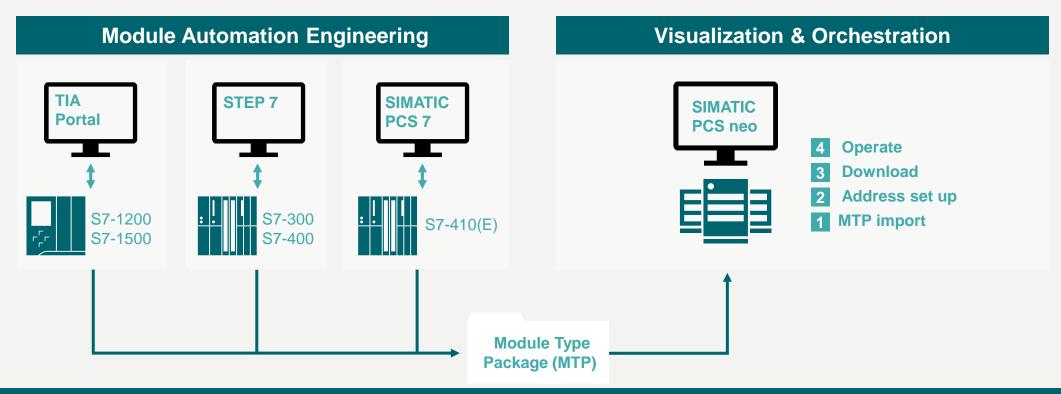


System Access

- Immediate remote support trough experts without local installation effort
- Completely web-based system (HTML5) enabling access to all project information.
- Secure system access via webbrowser and certificates







MTP establishes the foundation for a new way of engineering and automation in Process Industries

Digitalization in Process Automation



That's all from Digitalization in **Process Automation for** now - much more information and topics at the SPS virtual event

https://sps.virtualevent.siemens.com/en