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THINK neo.

Welcome to the Future of Process Automation

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Agenda Innovation Day
SIMATIC PCS neo

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Process Industries

08:00	Breakfast and registration
08:30	Welcome ←
08:40	Why a new DCS?
09:00	Introduction to PCS neo: System Access
09:40	“Kahoot Break”
09:45	Introduction to PCS neo: Usability:
10:15	Coffee
10:45	Introduction to PCS neo: Scalability
11:15	Introduction to PCS neo: Collaboration
11:45	“Kahoot Break”
11:50	Introduction to PCS neo: Digitalization
12:00	Introduction to PCS neo: IT-Security
12:10	Q&A (time buffer)
12:30	Lunch and networking

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Industry requirements for Distributed Control Systems
in the context of digitalization

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Process Industries

Global **Collaboration**

Life Cycle compatibility

Intuitive user guidance

Modular Automation

Scalability from small units to large plants

Horizontal integration in the plant

Combining the real and the virtual world

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The journey begins with SIMATIC PCS 7

SIMATIC PCS 7
State-of-the-art Process Control System, future-proof and fit for digitalization

- More than 20 years experience and understanding of customer needs
- Efficient Engineering with libraries and reuse of flexible controls
- Innovative I/O periphery and controller hardware with PROFINET communication

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The journey begins with SIMATIC PCS 7

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SIMATIC PCS 7 V9.0 opens up new opportunities
with its new hardware platform based on PROFINET standard:

With SIMATIC PCS 7 V9 Siemens has recently introduced such an **innovative hardware** …

… that we can build the most innovative system software on it.
The Process Control Innovation in 2019.

With PCS 7 V9.0 users are very well prepared for a Digital Future.

The Process Control Innovation that saves your Know-How and protects your invest!

Introducing a Process Control Innovation in a market struggling between innovation and continuation with 30+ years of plant lifecycle!

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Riding the wave of innovation in Process Automation

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SIMATIC PCS 7 Version 8.x
System Software Innovation

2011-2016

SIMATIC PCS 7 Version 9.0
Hardware Innovations

2017

SIMATIC PCS neo
New System Software

Software Evolution: Application Architecture
Control Module Types, Advanced Process Library, …

Saves your know-how!

Hardware Evolution
PROFINET for Process Industry, SIMATIC ET 200SP HA, SIMATIC CFU, …

Protects your HW invest!

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What is “Process Control Innovation”
Simplified Schema

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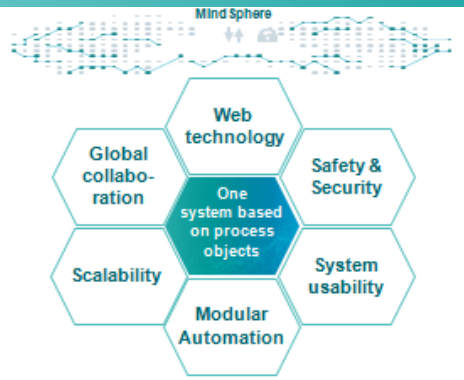
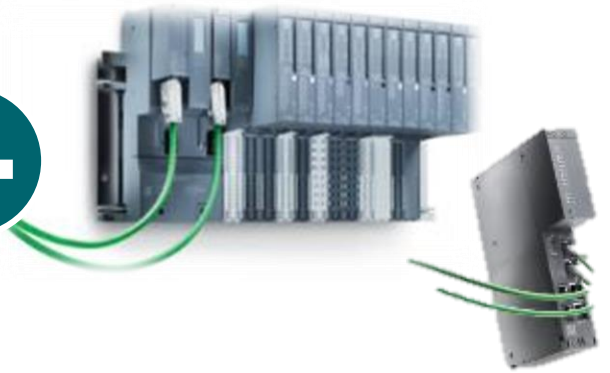
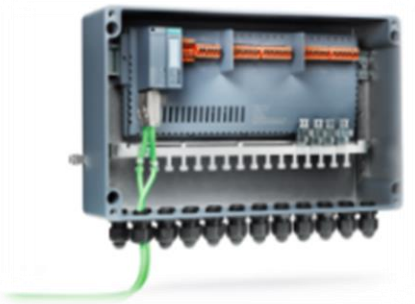
New System Software



… using the same application architecture as SIMATIC PCS 7 …

Hardware SIMATIC PCS 7 V9.0





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Invest protection and Know-How through Evolution Approach!

Lowest Effort conversion from SIMATIC PCS 7 to SIMATIC PCS neo

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APL, CMT, Technological Products, COMOS, PAA, Recipes…	APL, CMT, Technological Products, COMOS, PAA, Recipes …	„1 to 0,9“	Same Application Architecture saves your Know-how „CMT Forever!“
CFC, SFC	CFC, SFC	„1 to 0,9“	
SIMATIC PCS 7	SIMATIC PCS neo	NEW System Software brings tremendous innovation	
SIMATIC PCS 7 V9 HW: Controller S7-410*, Communication Switches, Industrial PCs**, …		„1 to 1“	Same Hardware Platform saves your Invest
I/O Solution: Standards based on Profinet & Profibus		„1 to 1“	

*After firmware update, ** PC: IPCs of current version or SIVAS can be used further

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Enter a new world of process control technology

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Based on the hardware known from SIMATIC PCS 7

- **Web-based multi-user engineering**
  for more than 30 engineers, who can work without any installation globally at the same

- **Intuitive user interface**
  for any user group and each application
- **Object-oriented data management**
  for highly efficient workflows and maximum reusability in a clear software structure
- **Open and flexible architecture**
  for modular automation and highest scalability

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The common hardware basis for future innovation…

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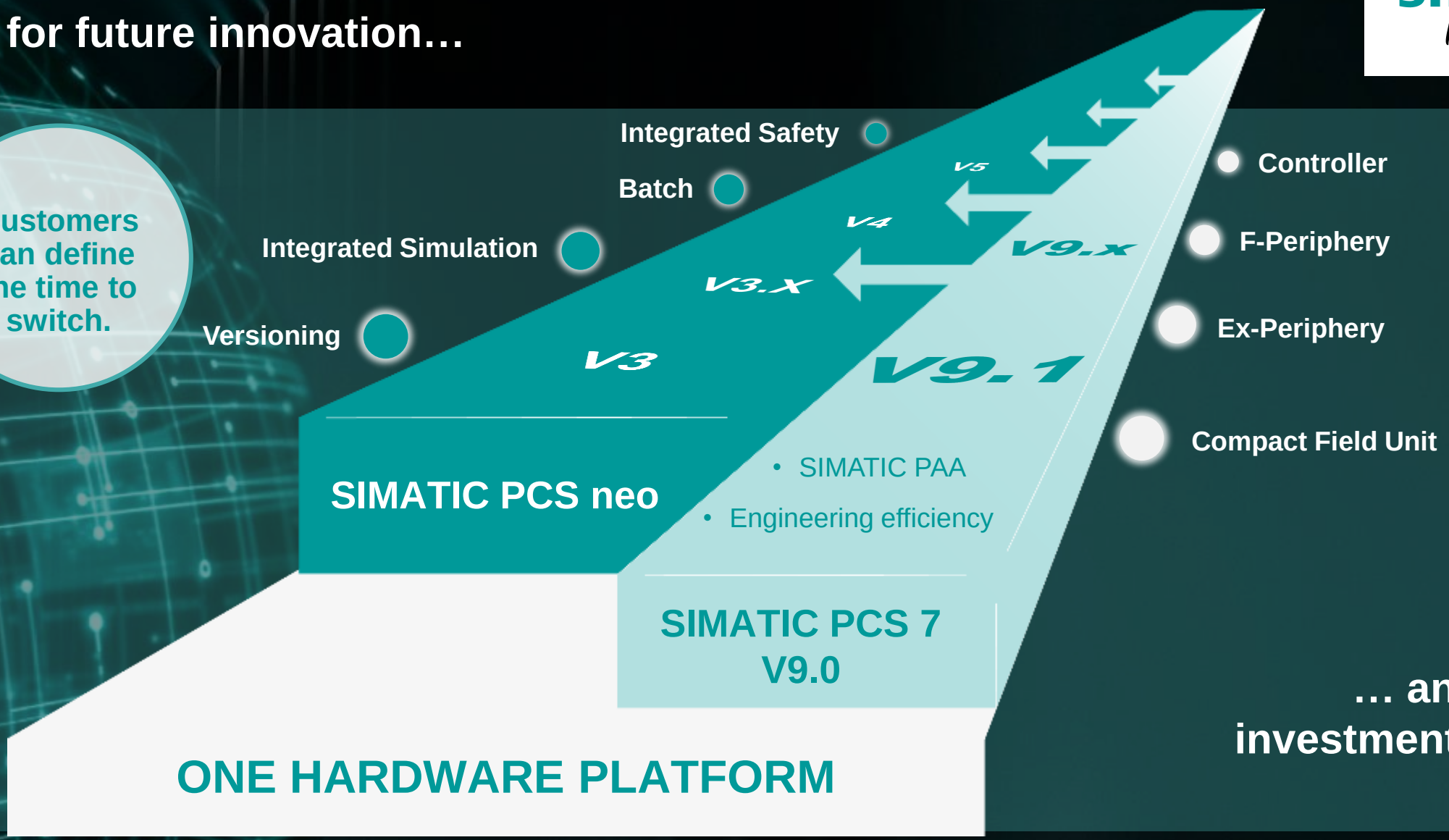
Customers can define the time to switch.



… and maximum investment protection!

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SIMATIC PCS neo - introducing with a clear market focus

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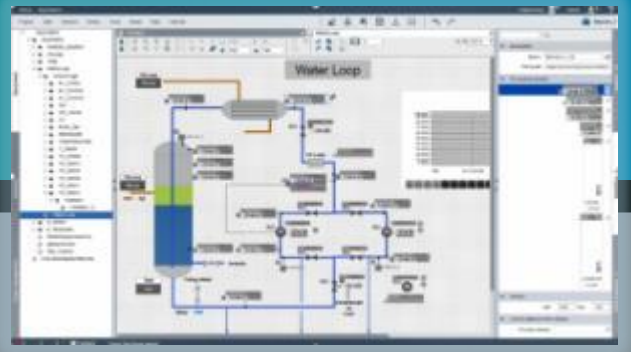
SIMATIC PCS 7

- Widest range of applications for all process industries
- Continuous processes, as well as batch and regulated industries
- Greenfield and brownfield

SIMATIC PCS neo

- Chemical, water and plant infrastructure
- Continuous processes, from process modules to world-scale plants
- Greenfield



Software Evolution
Control Module Types, Advanced Process Library, …

Hardware Evolution
PROFINET for Process Industries, SIMATIC ET 200SP HA, SIMATIC CFU, …

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There are four possible situations for your Plant … in the starting phase …

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Greenfield and brownfield projects

Evaluation of User Requirements

Greenfield Projects with requirements covered by Process Control Innovation

Projects with requirements not yet covered by Process Control Innovation

Select SIMATIC PCS 7 V9

Keep „Ready for future switch“ criteria –

Evolution of SIMATIC PCS 7 systems

There is no need to switch now

Plant with SIMATIC PCS7 V9

Operate SIMATIC PCS 7 V9

You can already adapt to „Ready for future switch“ criteria.

Plant with SIMATIC PCS 7 older than V9

Operate SIMATIC PCS 7

If you want to modernize now, go to SIMATIC PCS 7 V9.0

SIMATIC PCS 7 V9

You define when you switch! … with the lowest effort conversion/ evolution

SIMATIC PCS neo

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The innovation that saves your Knowledge & Applications

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- S7-410 / Current Network Components
- Current supported periphery (e.g. ET 200M, ET 200SP HA, CFU, …)
- PCS 7 standard SW (CFC, SFC, F-Systems, Batch/Recipes, …)
- Advanced Process Library
- CMT/ Engineering Types
- Technology products (Industry Library, Logic Matrix, APG, …)
- Compendium conform engineering
- Plant Automation Accelerator (PAA)/ COMOS

Ready!

SIMATIC PCS 7 applications will easily be transferred to SIMATIC PCS neo*

You can easily switch at a point of time which you can define using **Transfer Tools** (DCS based, COMOS based) and easy **interfacing options**! (“Seamless evolution”)

* HMI / OS-Graphics need to be transferred to HTML 5

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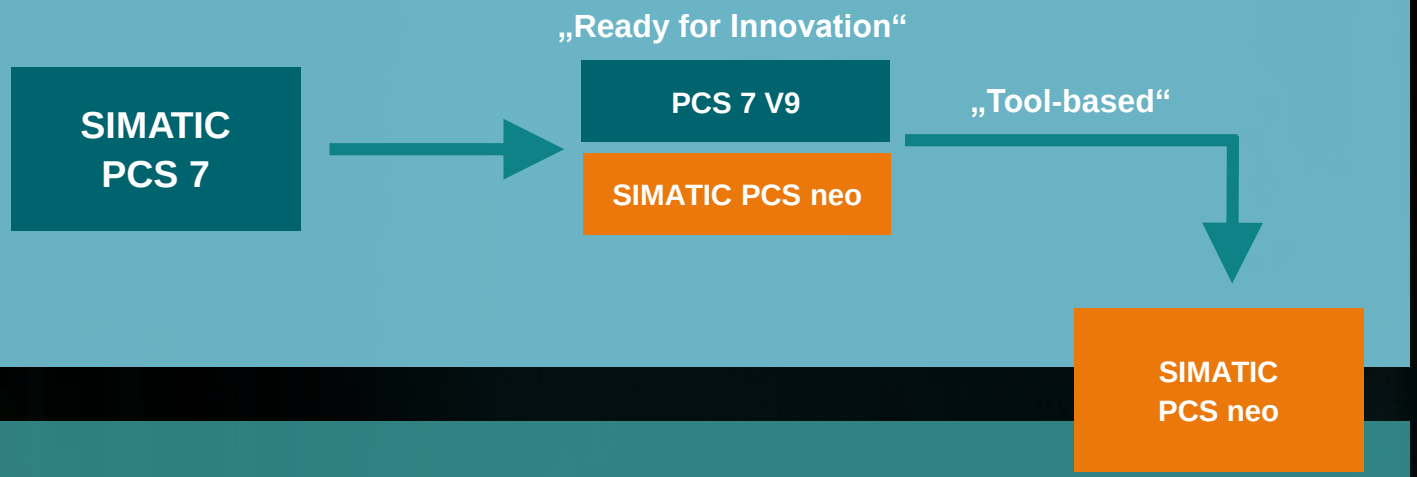
Evolution & Migration

Evolution

… from System A

to System A‘ …

… is an upgrade supported mainly by the system based on a same HW and Application Structure.
Goal is protecting the installed base of PCS 7 as potential customers for SIMATIC PCS neo



Migration

… from system A

to system B …

… is moving from another system supported by Siemens services and products.

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Benefits of using Control Module Types

CMT – The Concept

- Standardized engineering concept : Summarizes similar function blocks in one Type Object.
- CMT concept provides a type instance concept what will reduce the engineering time of the new plant
- Very easy maintenance with „Bulk Changes“ - change the CMT for a group of pumps – and it gets valid immediately valid for all pump instances

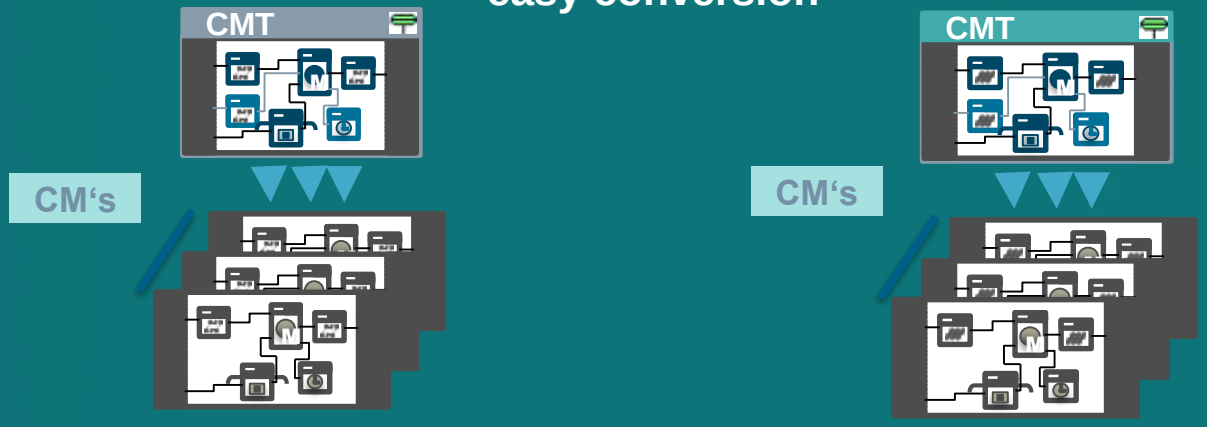
CMT – The Benefits

- **Fast and comprehensive bulk engineering**
- **Forward engineering and reverse documentation of changes on the instance**
- **Enables easy interaction with COMOS/PAA and SIMIT**
- **Meets International Standards and requirements from NAMUR and ZVEI**

SIMATIC PCS 7 | SIMATIC PCS neo

„CMT forever“

System independent engineering types for easy conversion



Highest efficiency for engineering, maintenance & modernization

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reThink Process Automation Business

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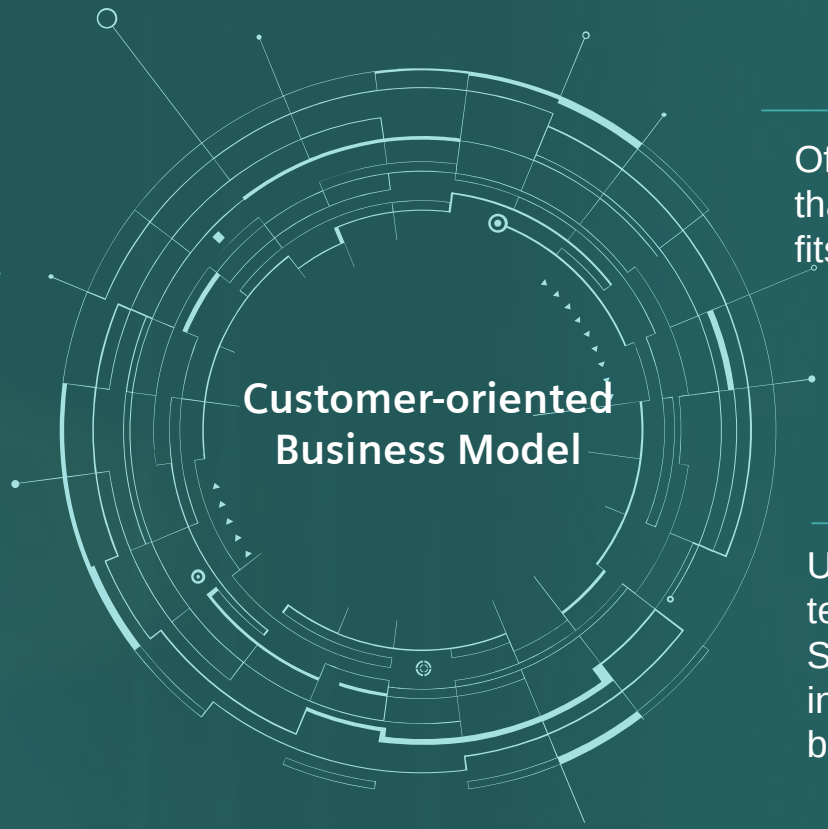
Lifecycle orientation

Integrated Portfolio of Software, Hardware and Services to support customers over the whole lifecycle of their plant with high-valuable packages.



Individualization

Offer several Business models so that customers can choose what fits best to their individual needs.

Digitalization

Use state-of-the-art seamless technologies in Marketing, Sales, Service and Licensing to individually serve each customer best.

Adapt the opportunities of Digitalization in modern Software Business to the Process Automation market and increase individual customer orientation.

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Take a closer look …
From Engineering to Monitoring & Control

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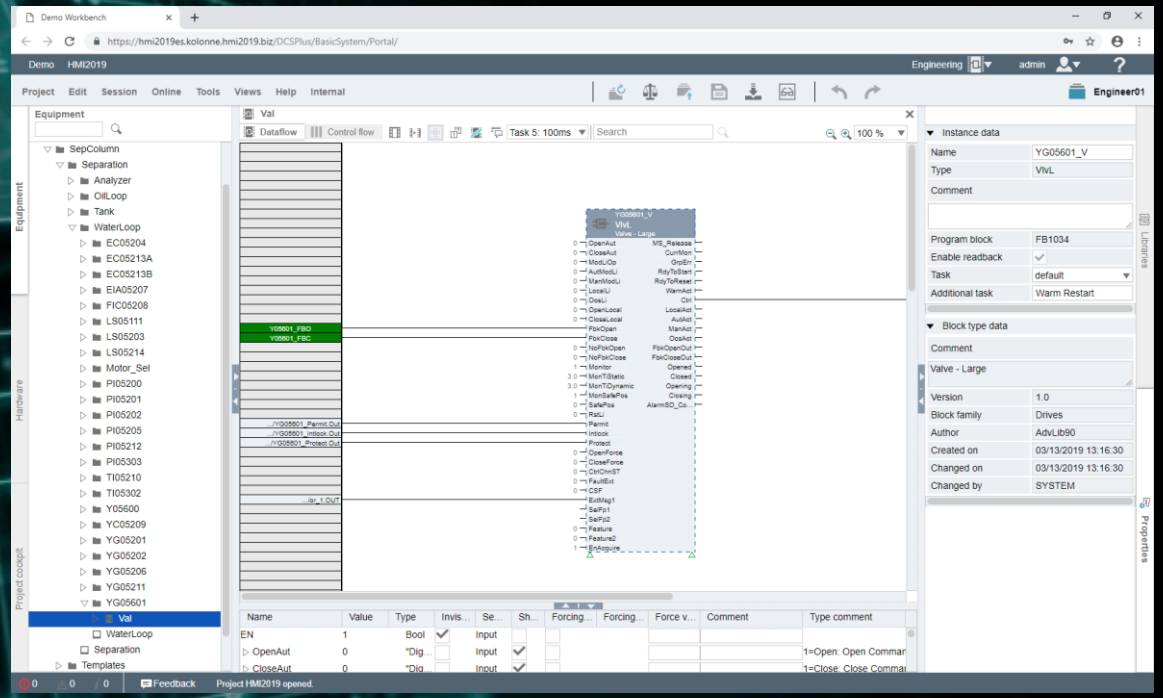

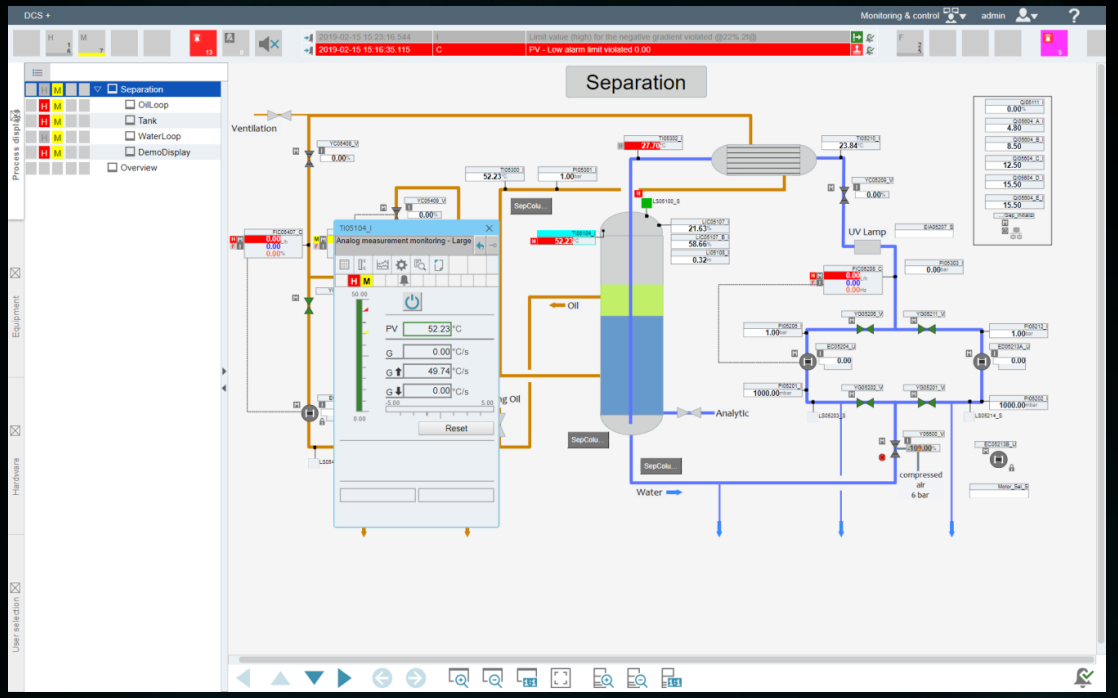

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reThink Process Automation

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reThink System Access

Imagine your experts have immediate access to your engineering projects and operation processes from anywhere using only a secure web connection.

reThink Scalability

Whether you supply small units or managing an entire production site – imagine a system that can be seamlessly upgraded and expanded during operation.

reThink Digitalization

Envision a system that enables plant design and engineering, simulation and automation seamlessly.

rethink Usability

Interaction with the system will take place clearly and easily via a highly intuitive user interface – so you can focus on what really matters in your business.

reThink Collaboration

Think to count relying on a system that enables a secure connection of all users and external suppliers at the same time.

reThink Cyber Security

“Security in Depth” because security is top priority. Plant security, Network Security, Web Security, System Integrity, TÜV Certification 62443, IACS Security Standards, Charter of Trust

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Starting to “reThink” Process Automation
to accelerate the digital transformation

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reThink
System Access

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reThink Digitalization

suitable for any device from desktop to mobile

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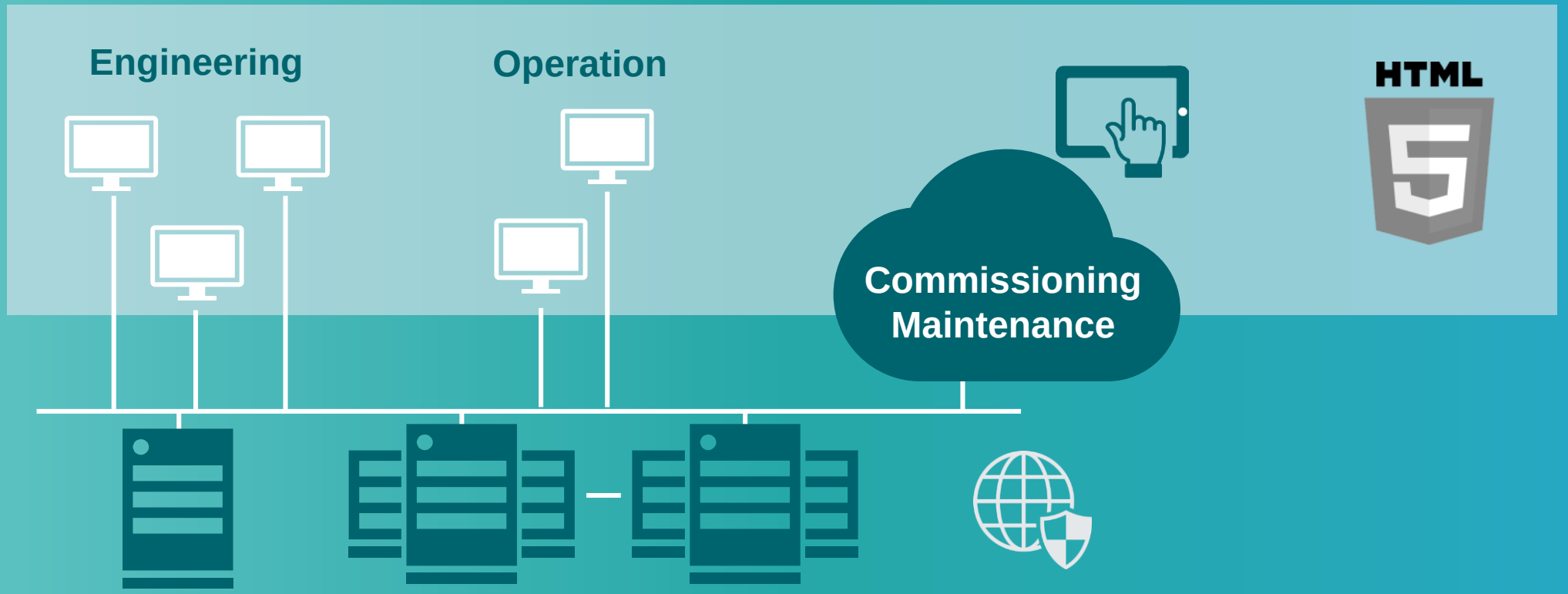

HTML 5 based full web-approach: System runs in Browser without software installation!

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Live demo System Access
Zero Installation Client

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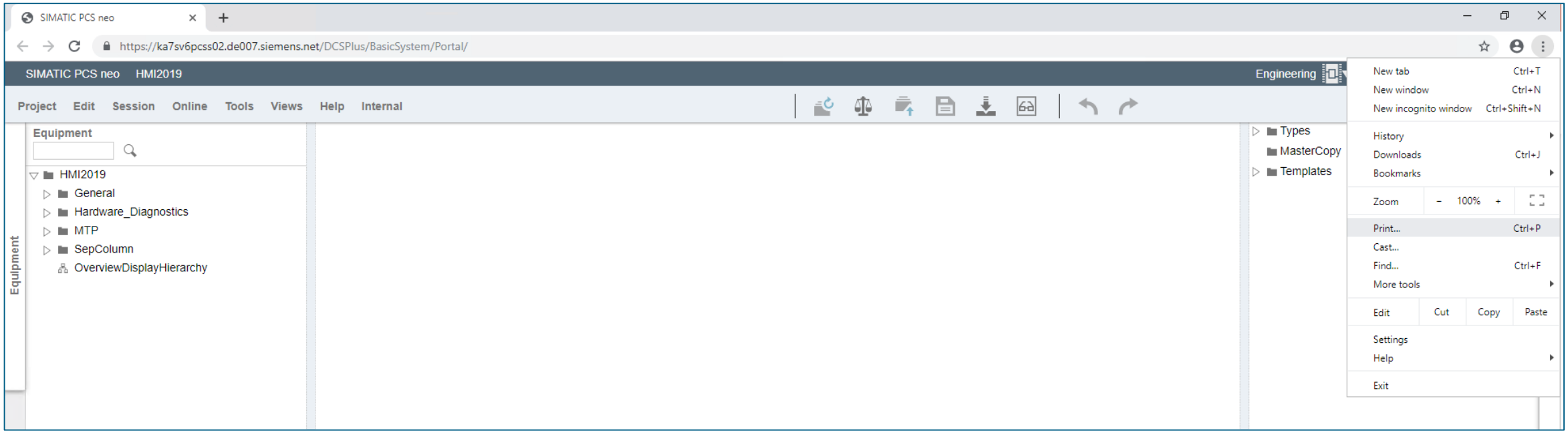
Engineering, operation and maintenance –anywhere and device-independent –without installation.



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System Access: Openness

Object-oriented system platform for communication

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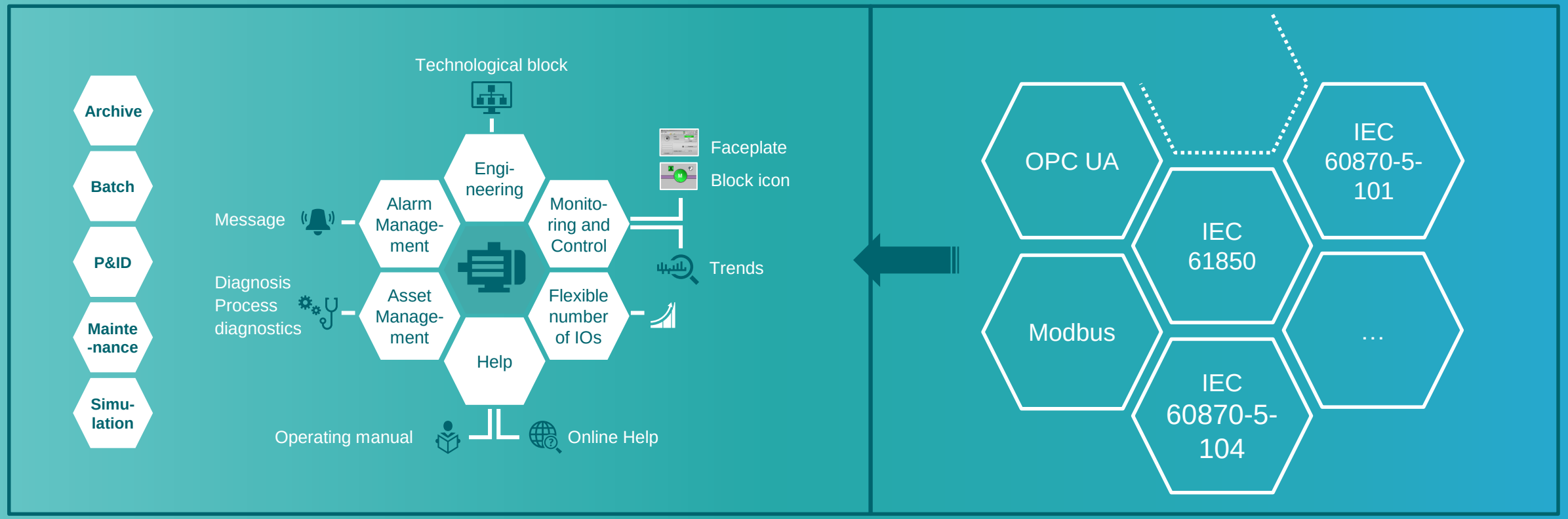

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System Access

Imagine situation …

Imagine a plant problem in Asia, a local solution attempt fails and the only process specialist who could help is several thousand miles away. Only he/she could give some advice, because he/she has some experience in this matter.

What is the benefit

- Reduce infrastructure investment with Zero-Installation Client.
- Take plant operation and maintenance to any end device or location.
- Easy access control with centralized user management.

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reThink

With SIMATIC PCS neo the specialist from overseas can be authorized on the
local system with a secure connection in a web browser without any pre-installations …

- immediately
- without loosing cost intensive time
- without any travelling costs/time

Share your best specialist knowledge worldwide!

Agenda Innovation Day
SIMATIC PCS neo

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Process Industries

08:00	Breakfast and registration
08:30	Welcome
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12:00	Introduction to PCS neo: IT-Security
12:10	Q&A (time buffer)
12:30	Lunch and networking

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Starting to “reThink” Process Automation
to accelerate the digital transformation

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reThink
Usability

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reThink Usability
The new Workbench Concept

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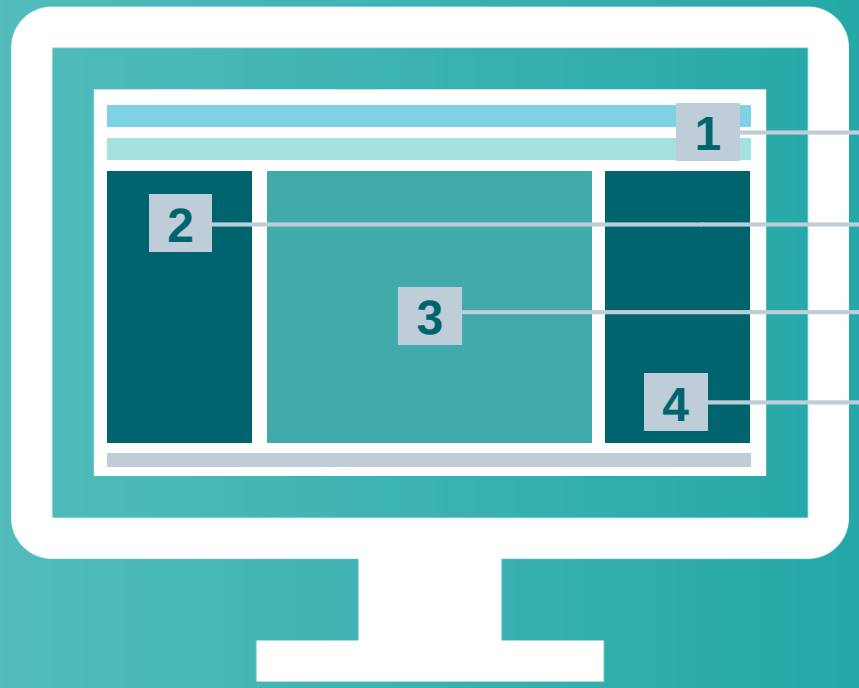

1 Header
2 Navigation
3 Content
4 Sidebar

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Live demo Usability
Workbench Concept

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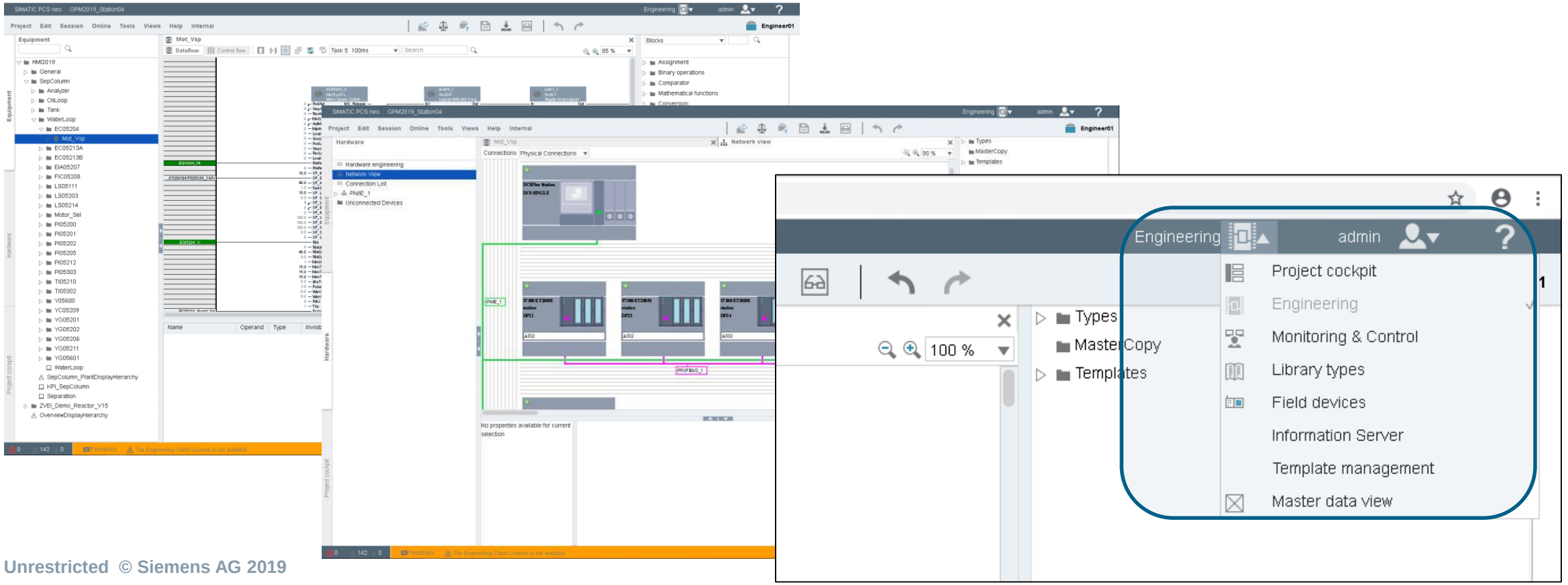
Faster navigation with a single and easy User Interface.
Complete tasks quickly with intuitive workflows.



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Live demo Usability
HTML5 User Interface –Engineering View

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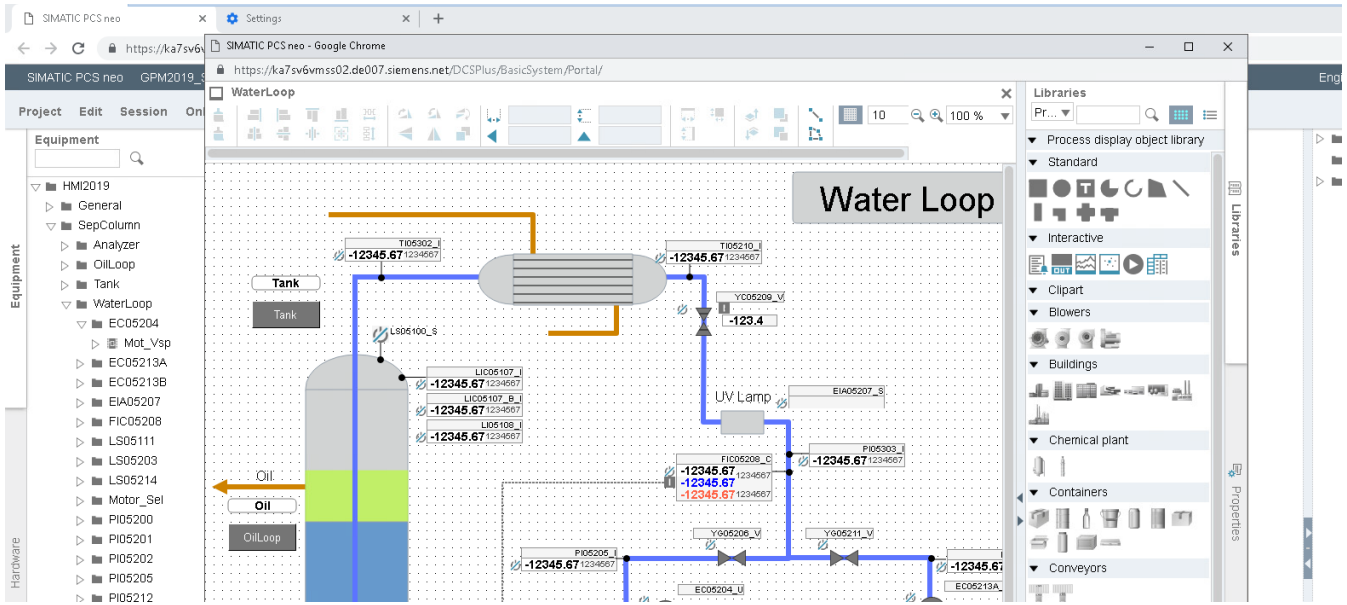
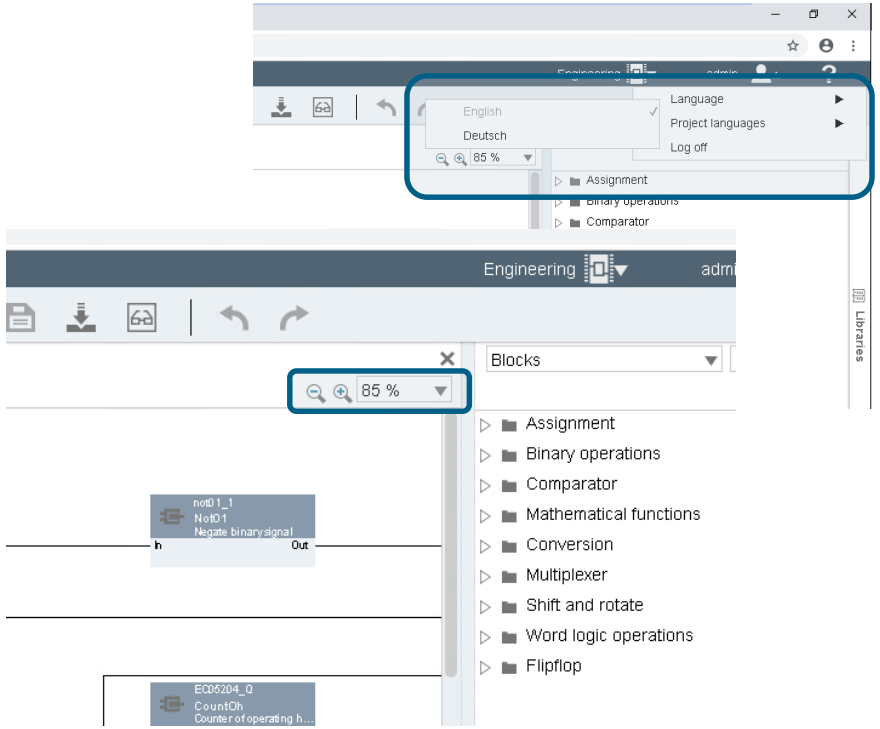
Web application brings state of the art HTML5 features.
Maximize efficiency by adapting the screen layout to match your preferences.





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Live demo Usability
Closer look at M&C (Monitoring & Control)

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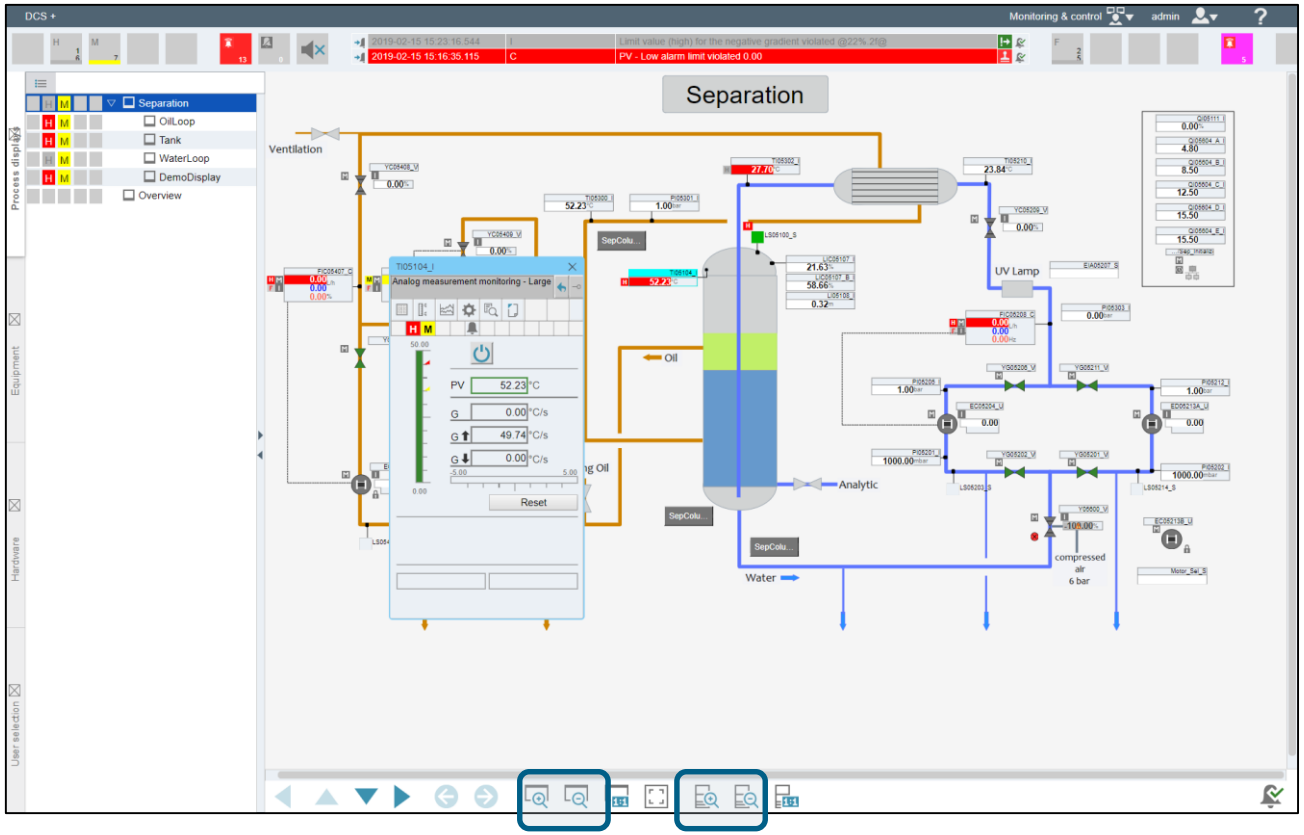
Web application brings state of the art HTML5 features. Maximize efficiency by adapting the screen layout to match your preferences.

A comprehensive selection of ready-to-go, flexible tools and algorithms for a wide range of process tasks

Ease-of-use

- Ergonomic symbols and task-oriented faceplates
- Uniform representation of state information
- Unified operation modes
  (auto, on, manual, local, out-of-service)



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Live demo Usability
Central Project Settings

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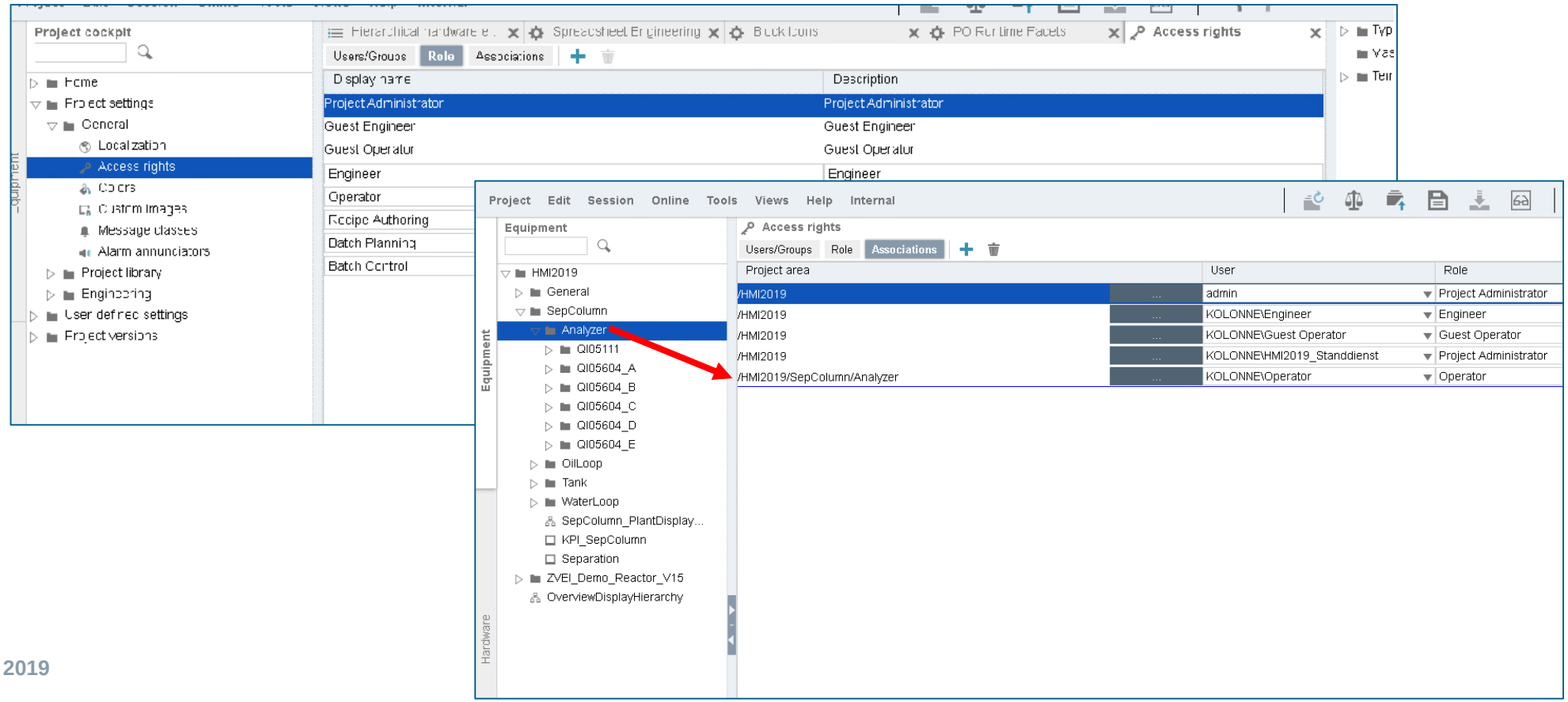
Easily manage project-wide global settings in one central location



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Live demo Usability
CFC Search Function

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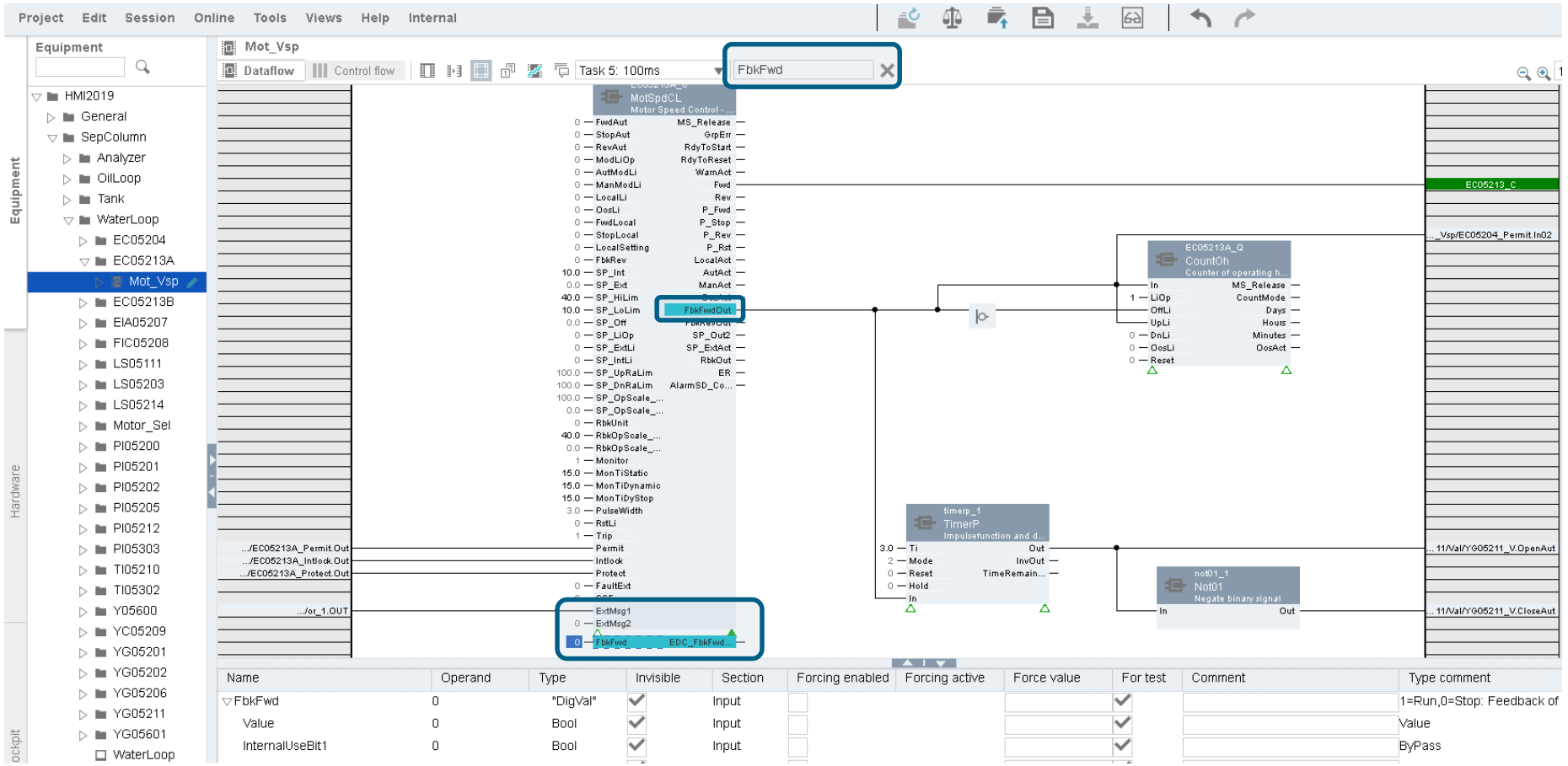
Use CFC search function to quickly find and edit parameters, hidden or unhidden



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Live demo Usability
Spreadsheet Engineering

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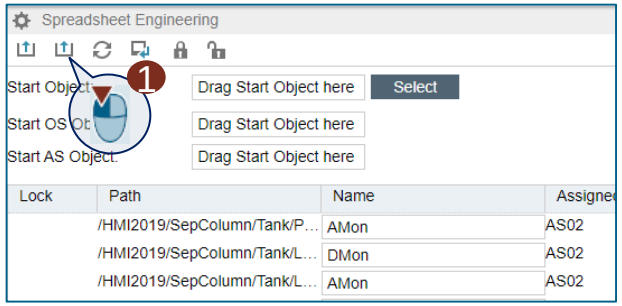
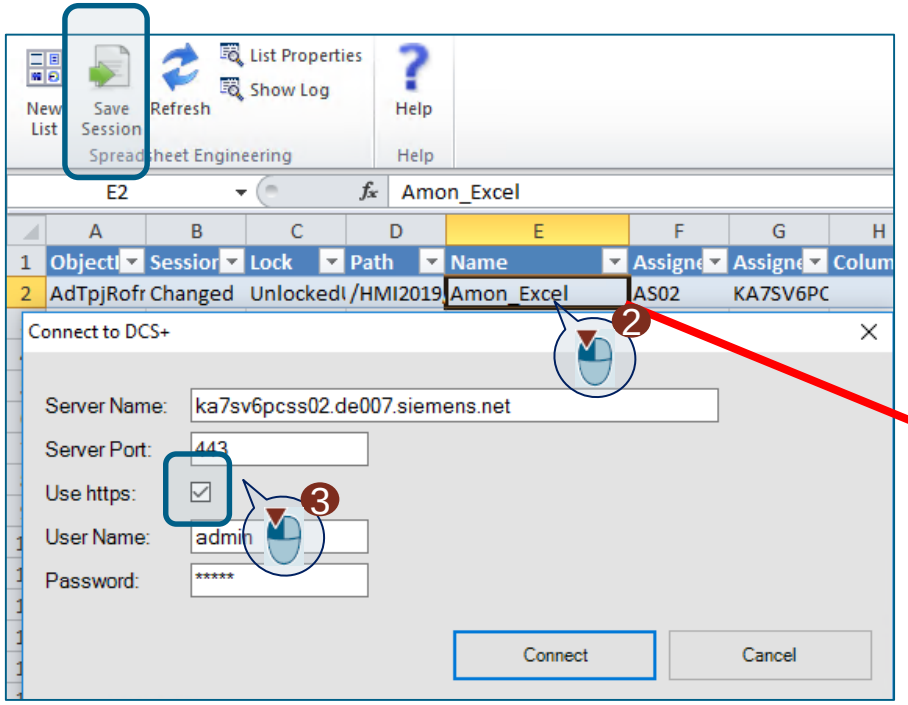
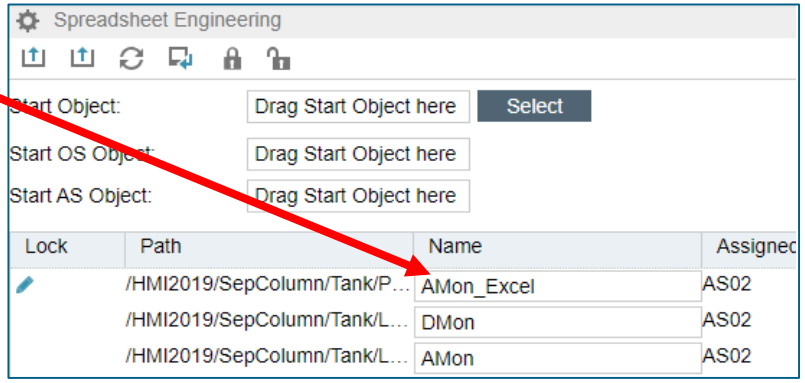
Spreadsheet or Excel engineering for experienced users to quickly perform mass data engineering







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reThink Usability
One object-oriented system platform

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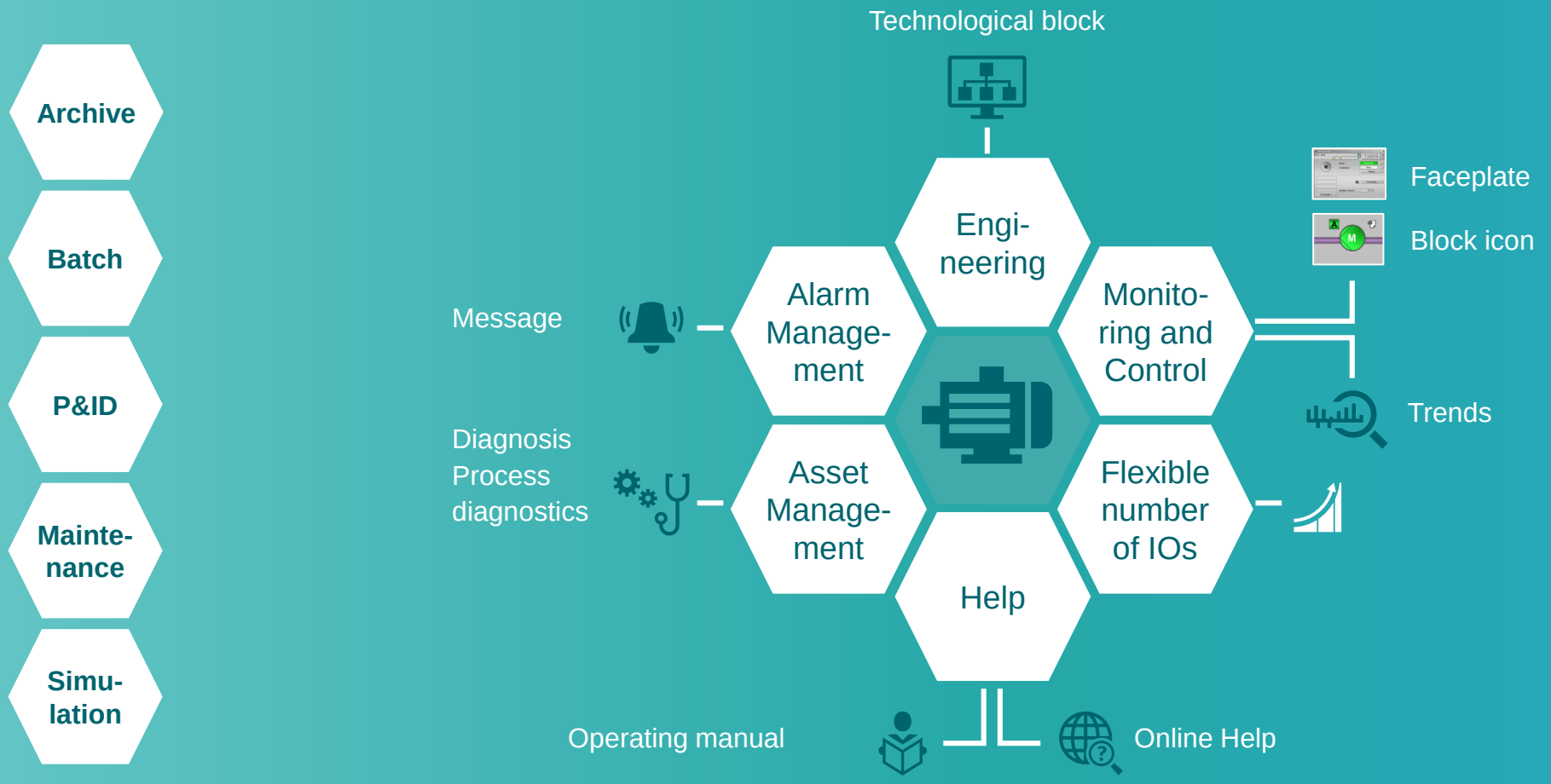

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Live demo Usability
Object Oriented Engineering –Process Objects

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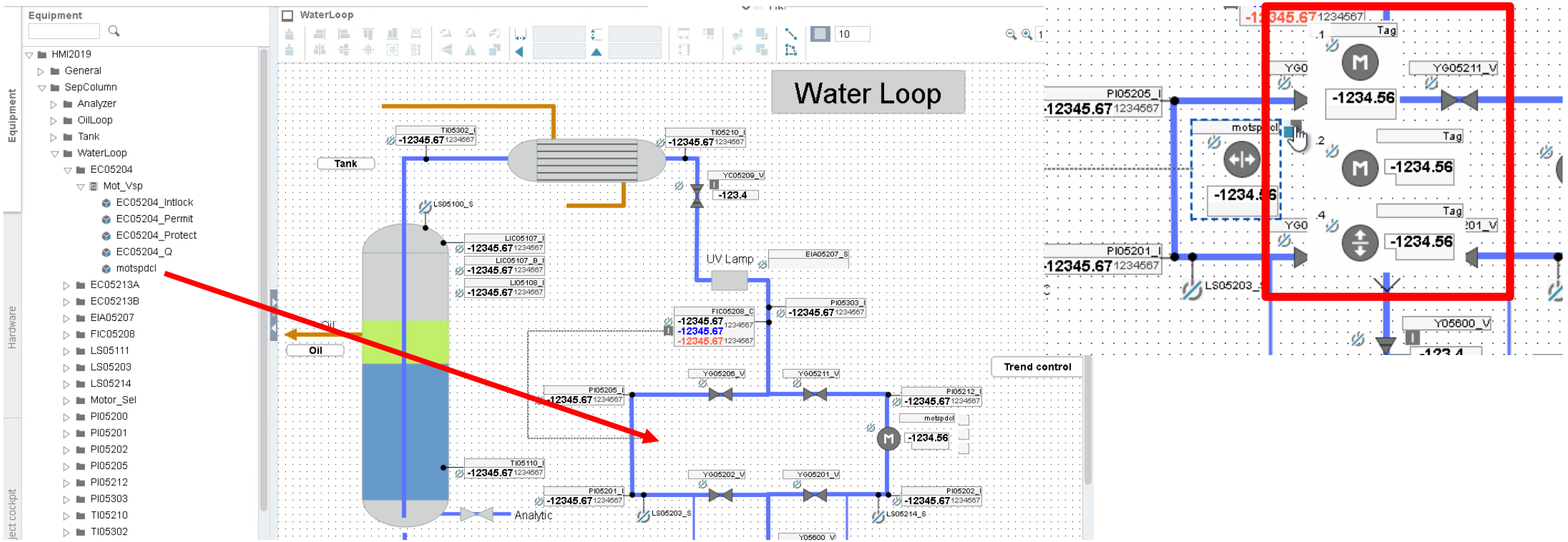
Safe time during engineering –no compiles needed during engineering with a single database using process objects



Live demo Usability
Object Oriented Engineering –Process Objects

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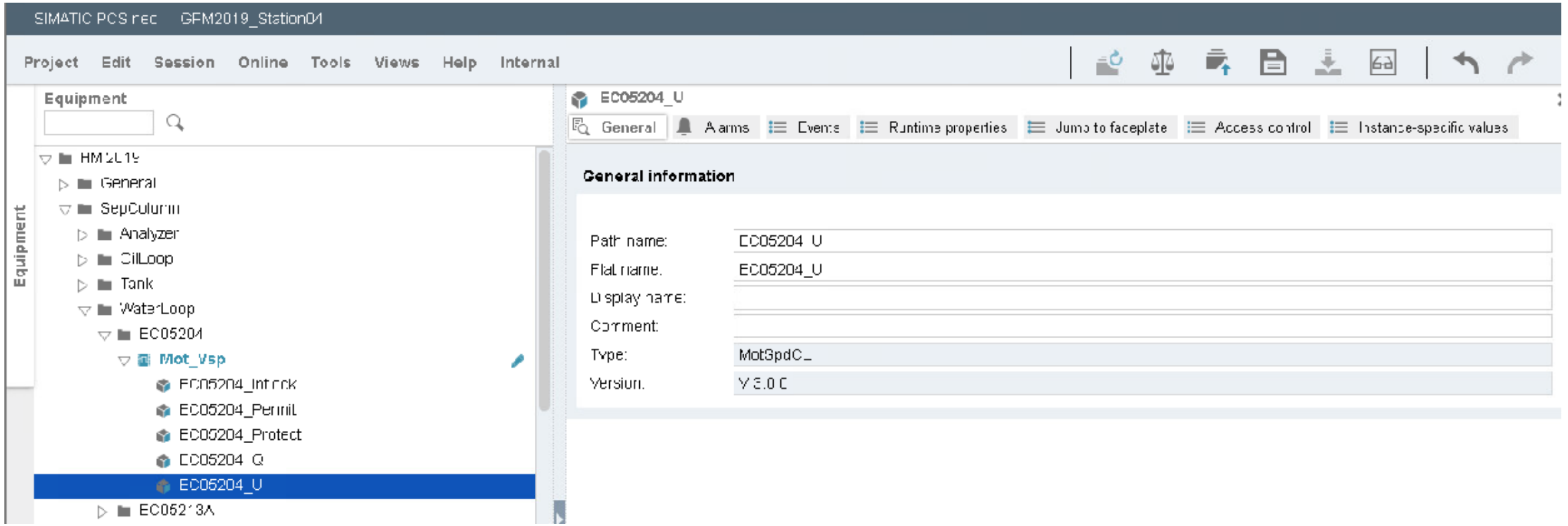
Convenient organization –quick access to all of the Process Object parameters and settings



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Live demo Usability
Object Oriented Engineering –Process Object Elements

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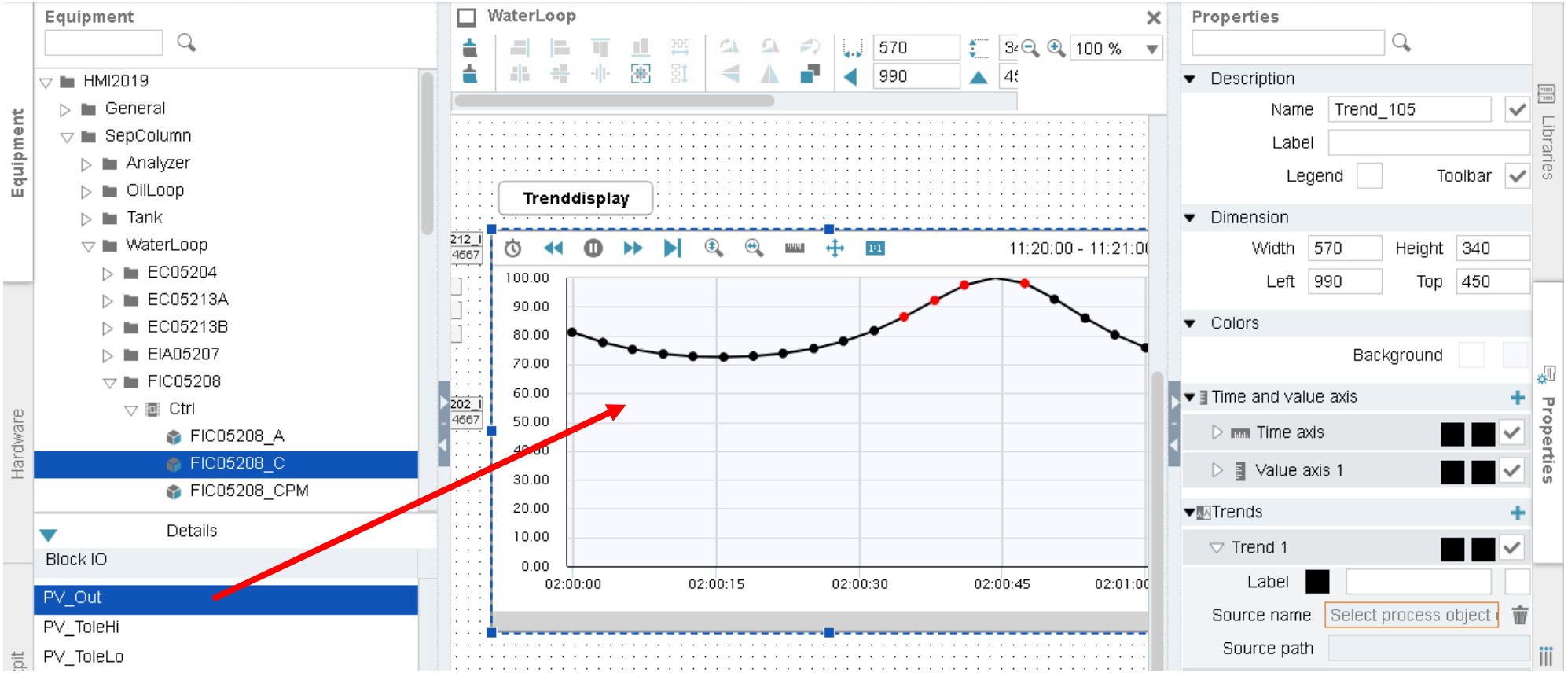
Monitoring relevant process object elements available at one central place



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Live demo Usability

Object Oriented Engineering – EQH Objects in Display Engineering

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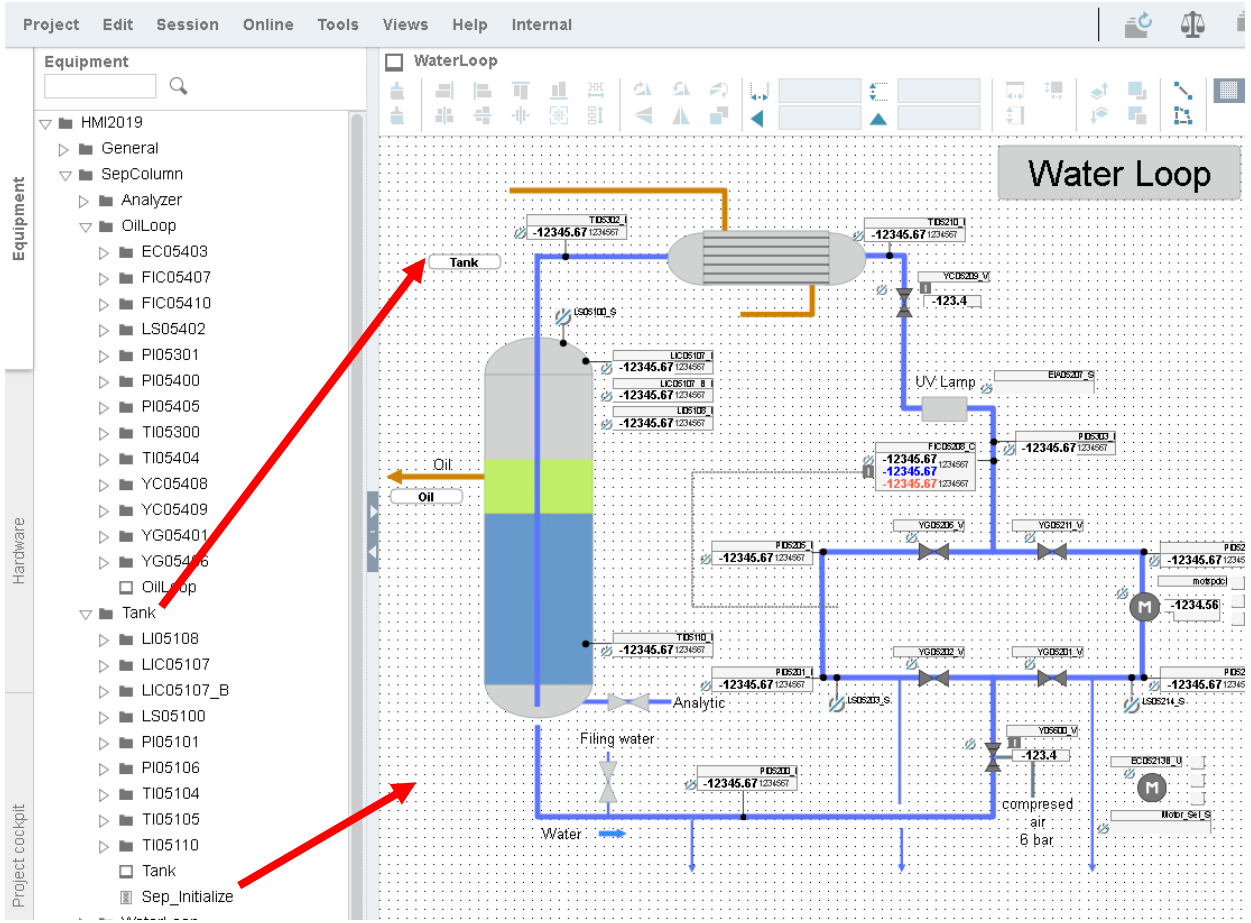
Centralized and object-oriented data base for all technological components –add objects to display quickly and easily



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Live demo Usability
Object Oriented Engineering – System Alarms

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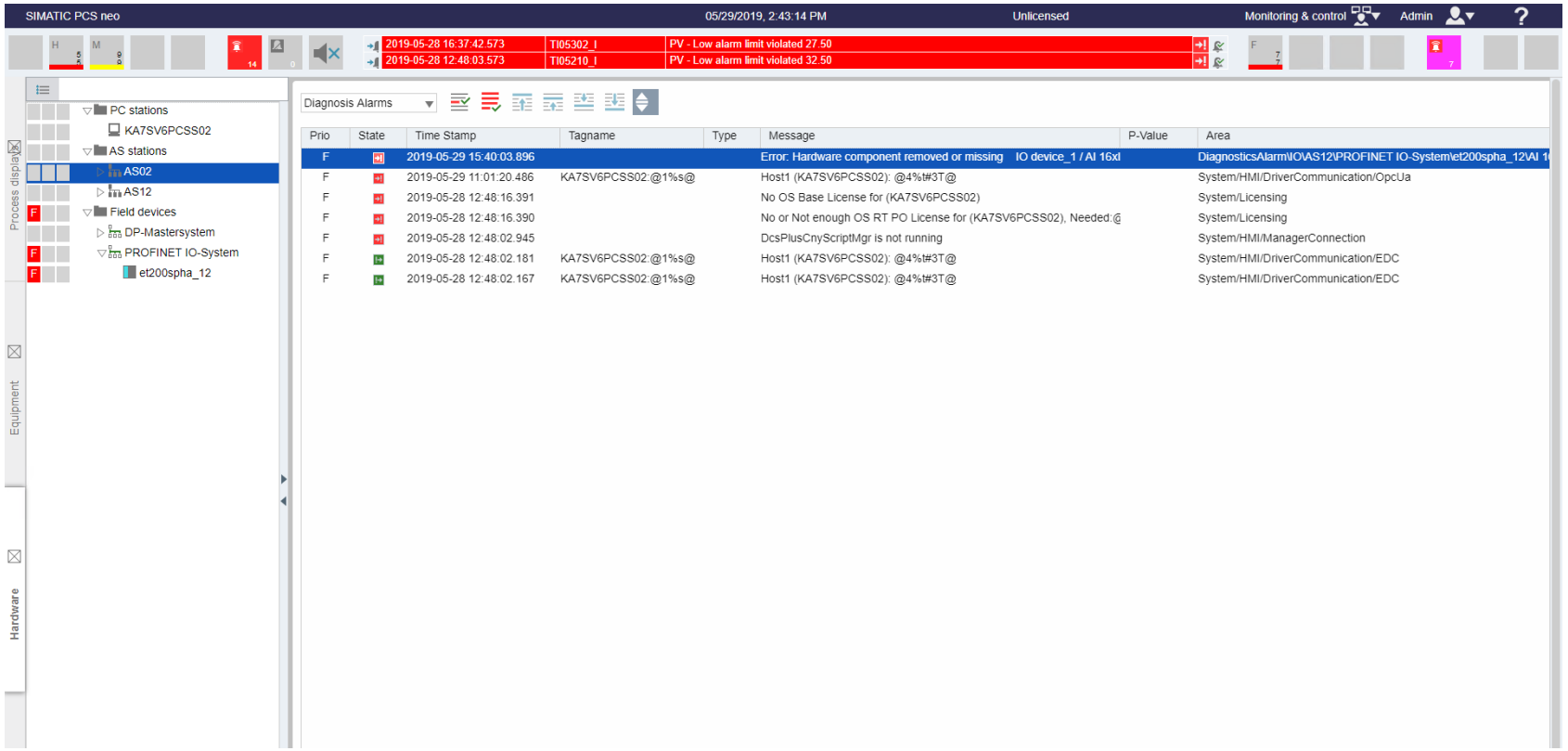
Relevant information at the right place –empower operations by bringing the most relevant information in an organized way



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Live demo Usability
Object Oriented Engineering – Process Alarms

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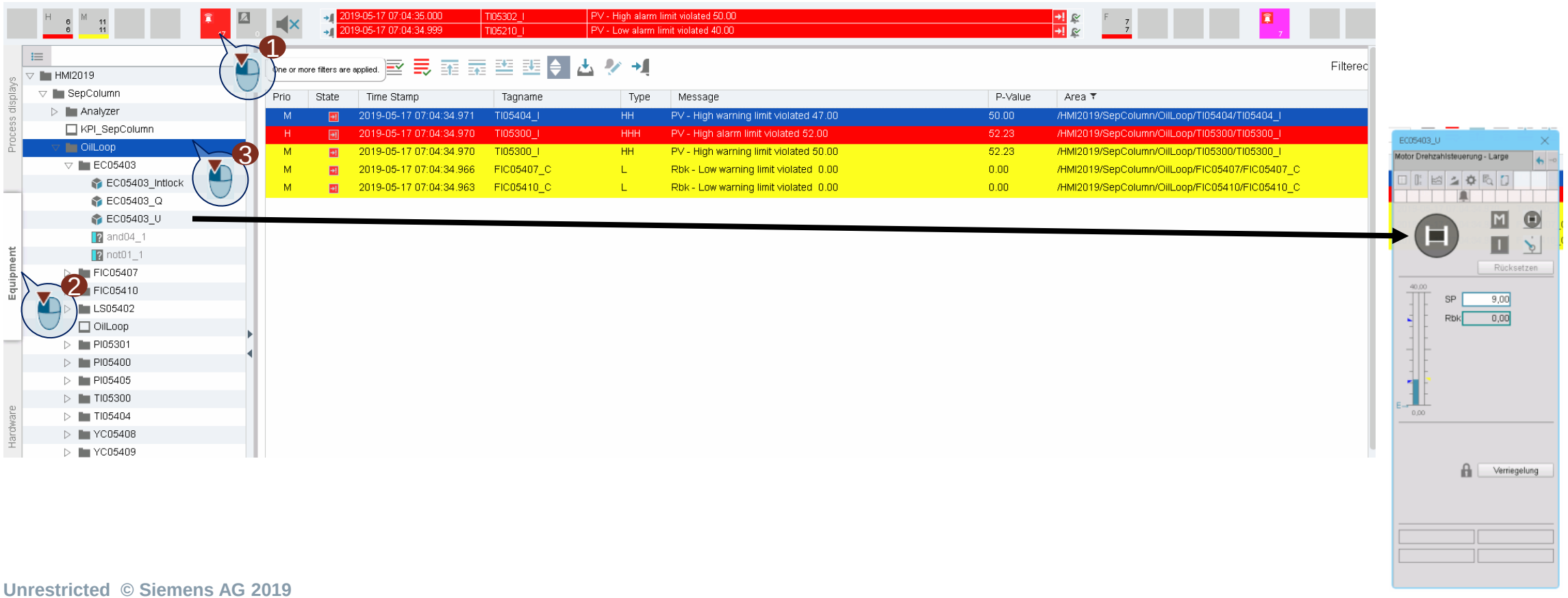
Ingenuity for life

Save clicks and time –filter for alarms and jump directly to faceplates from EQH



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Live demo Usability

Object Oriented Engineering –EQH Objects in Display Engineering

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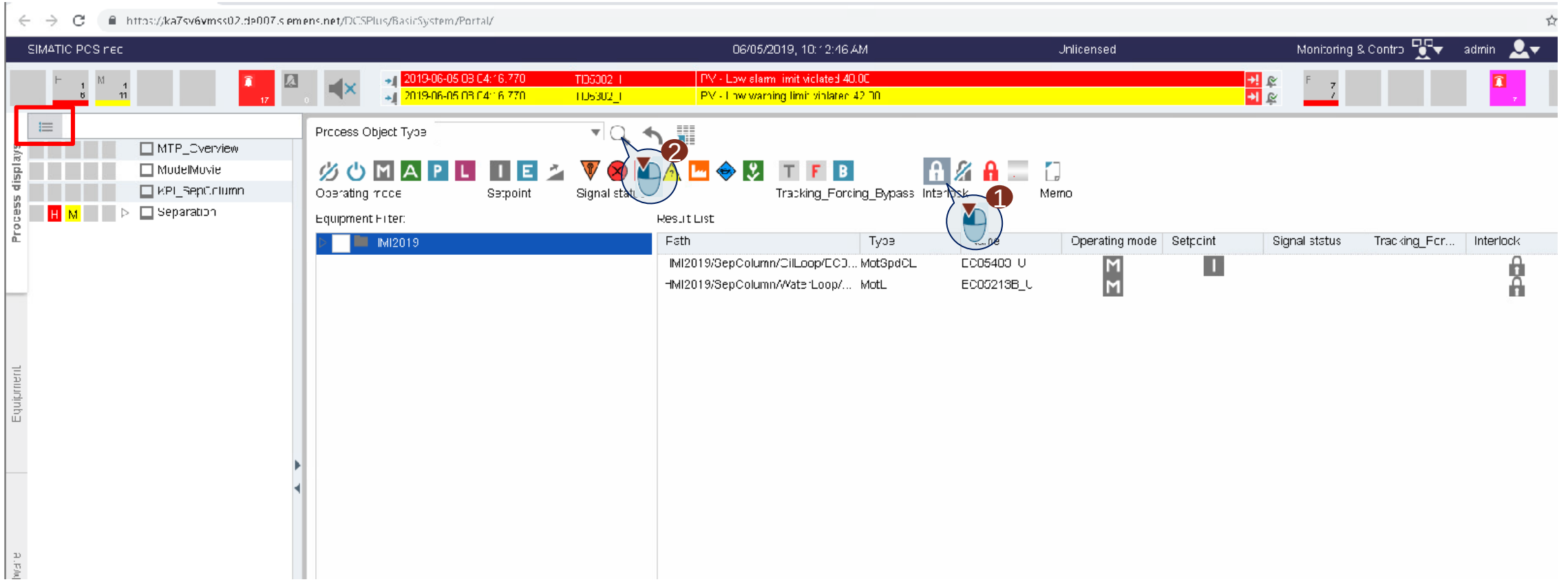
PO search –see all PO operating states in tabular view



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System Usability

Imagine situation …

A new international engineering project, with a mixed team of experienced and new staff.
How can the new staff easily and quickly get familiar with the new DCS System?

What is the benefit

- New users become familiar with the system faster than ever before.
- Experienced users take advantage of the reduced workflows and complexity

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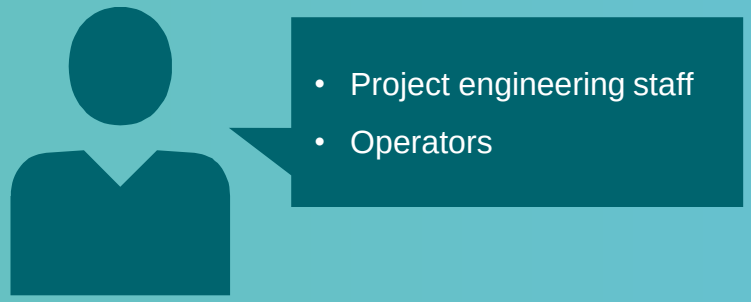

reThink

The intuitive and effective system usability enables new engineers and operators to become familiar with the system as quickly as never before.

With our new unique object oriented concept!

The plant operator has just **one system** for all tasks!

… ín two clicks to any information!

Agenda Innovation Day
SIMATIC PCS neo

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Process Industries

08:00	Breakfast and registration
08:30	Welcome
08:40	Why a new DCS?
09:00	Introduction to PCS neo: System Access
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Starting to “reThink” Process Automation
to accelerate the digital transformation

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reThink
Scalability

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reThink Scalability –
Highly flexible plant architecture – one Example of many possible

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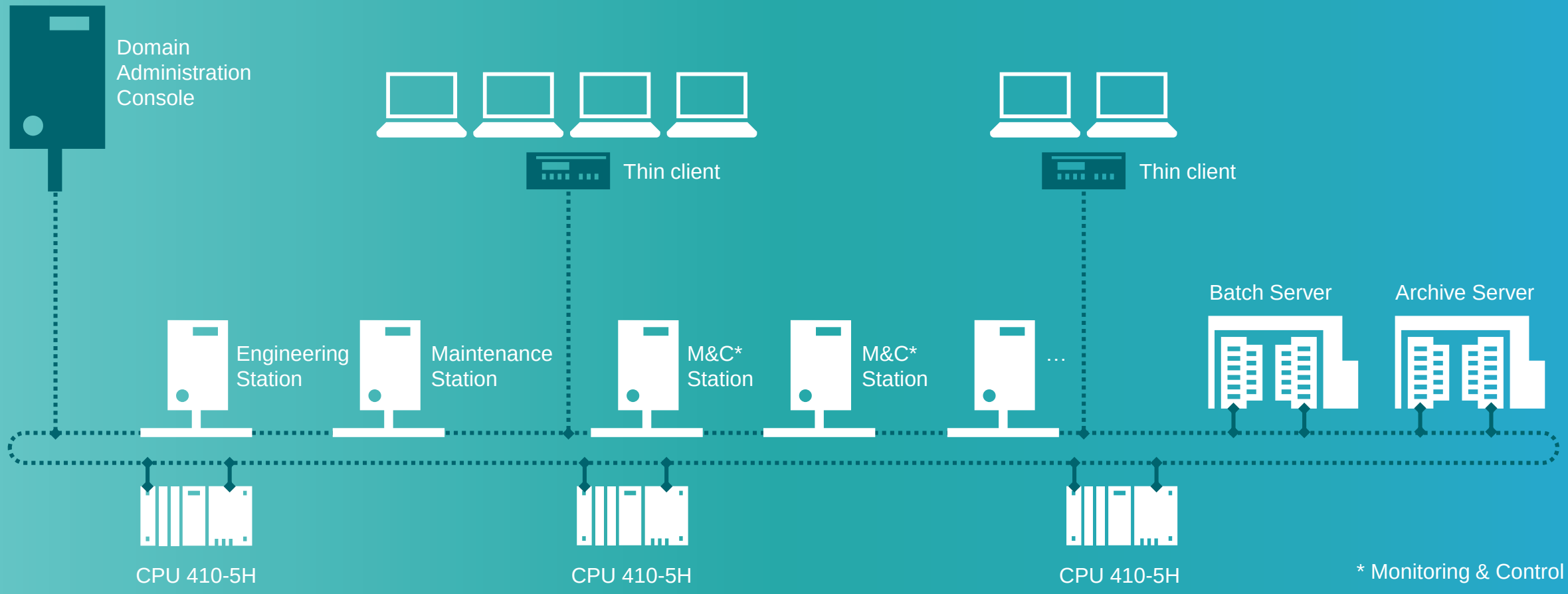

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reThink Scalability –
High flexibility to scale up the plant

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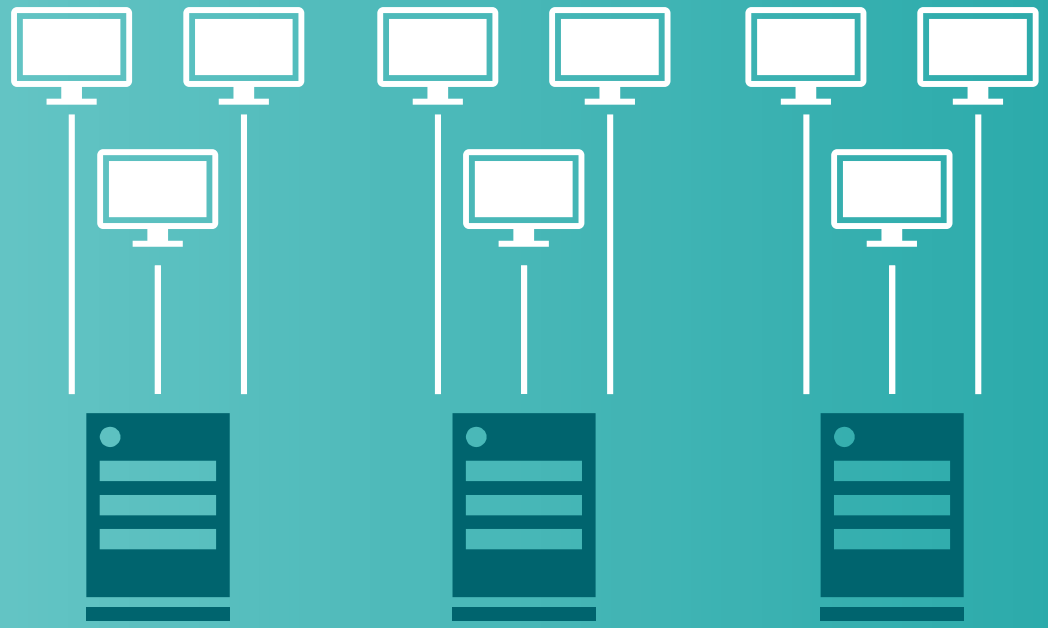
Optimized for **reliability**

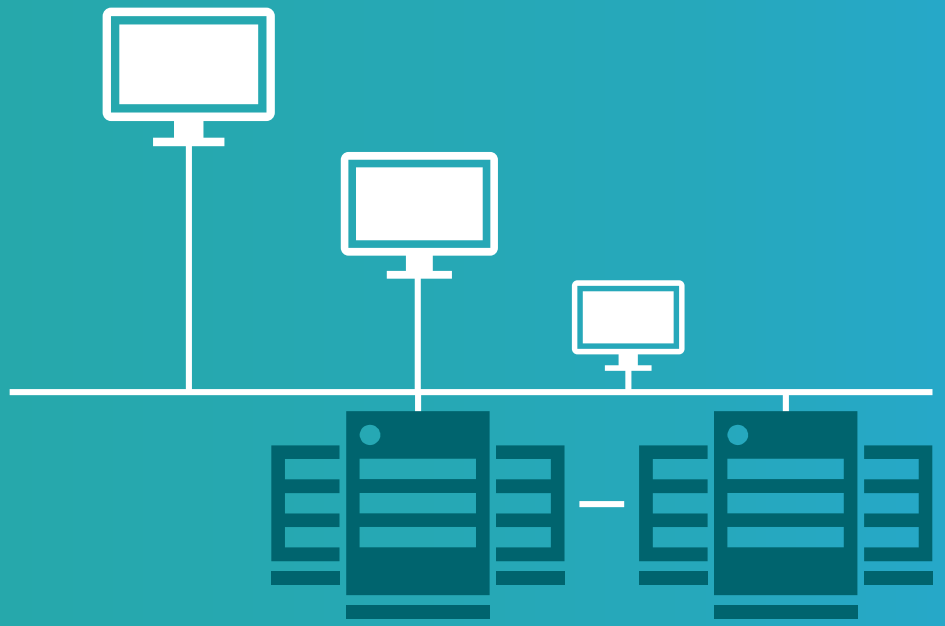


Multiple Single Stations

Multiple Replicated Servers

Single Station

Optimized for **scalability**



Server

Multiple Area-related Servers

Single Station

Redundant Server

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reThink Scalability

Global standardization from single Process Object to Unit

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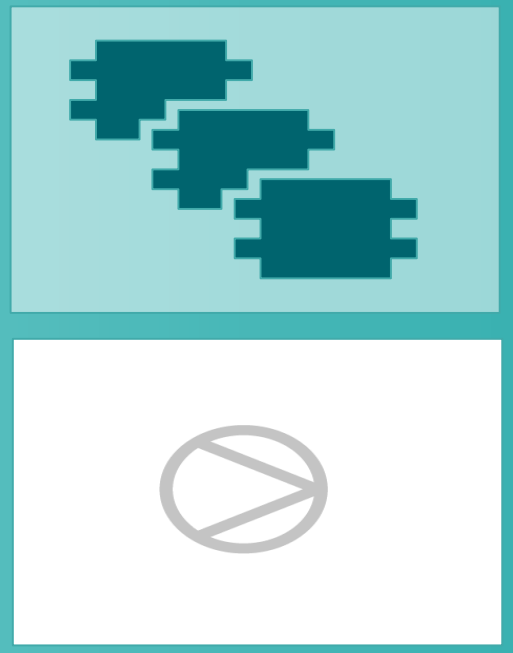
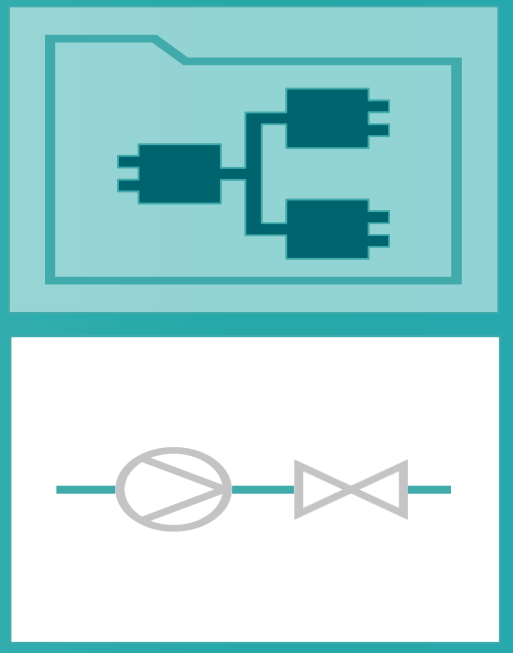
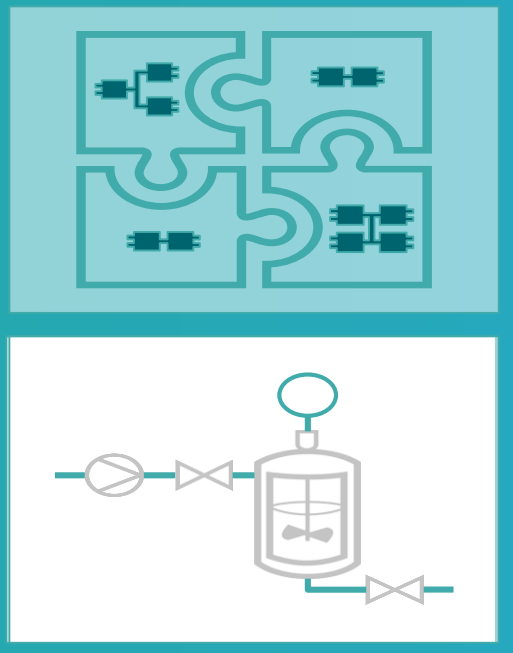
Process Object and Control Module Template



Equipment Module Template



Partial automation solution based on templates



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Live demo Scalability
Centralized Template Management

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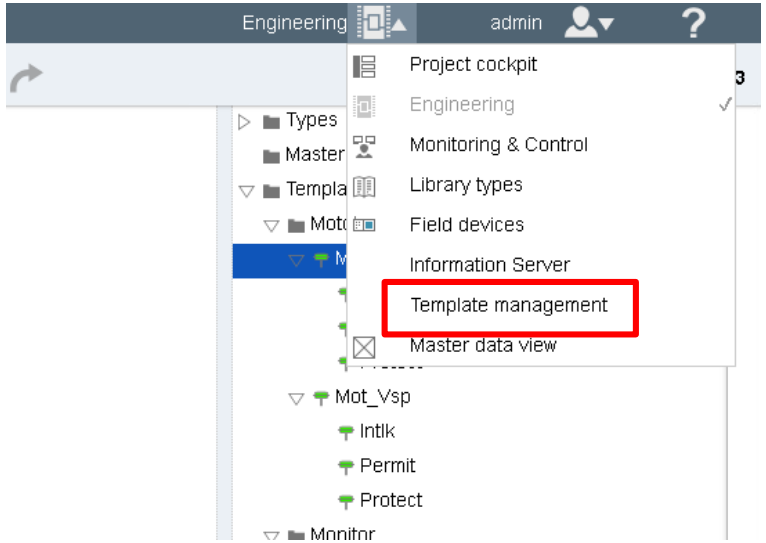
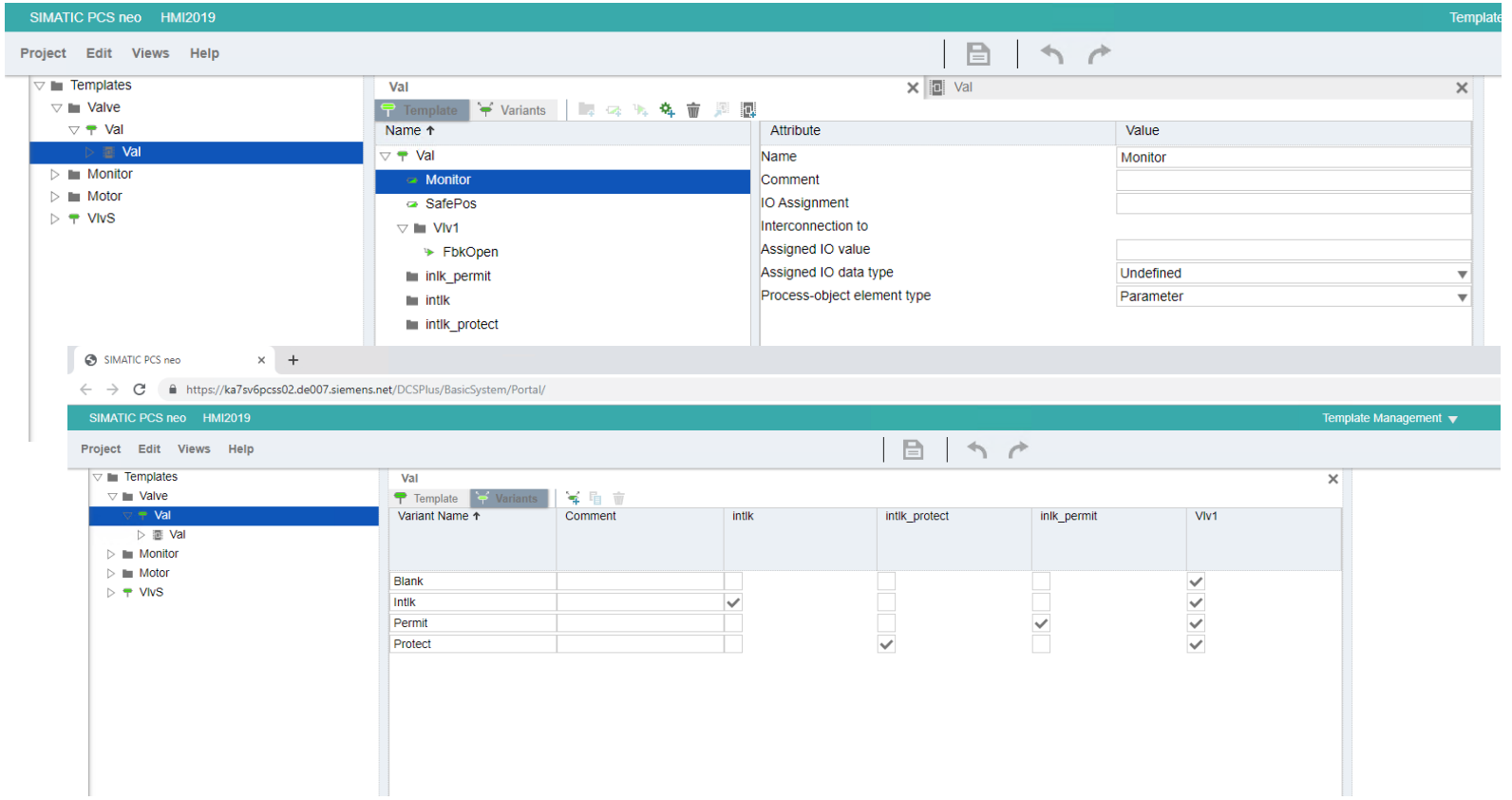
Speed up engineering with preconfigured and standardized templates





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Live demo Scalability
Instantiate Template

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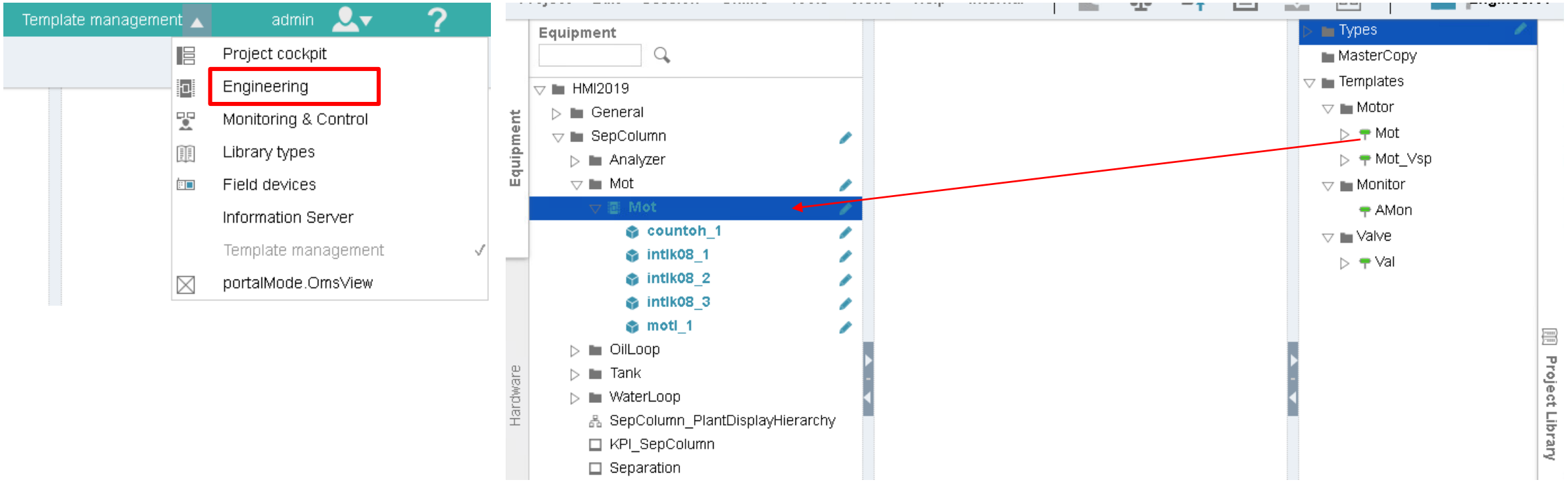
Speed up engineering with preconfigured and standardized templates



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reThink Sylability: Modular Automation

A major lever to boost engineering efficiency

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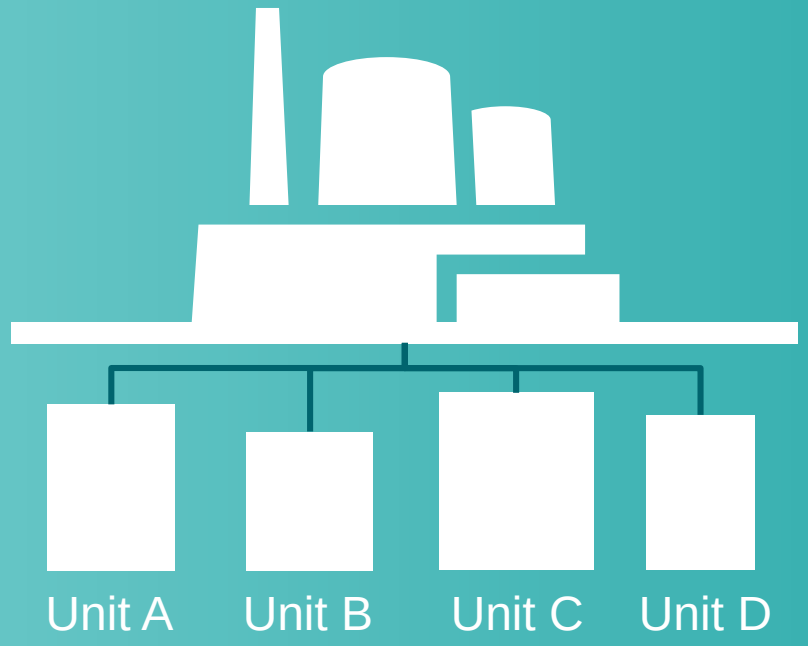
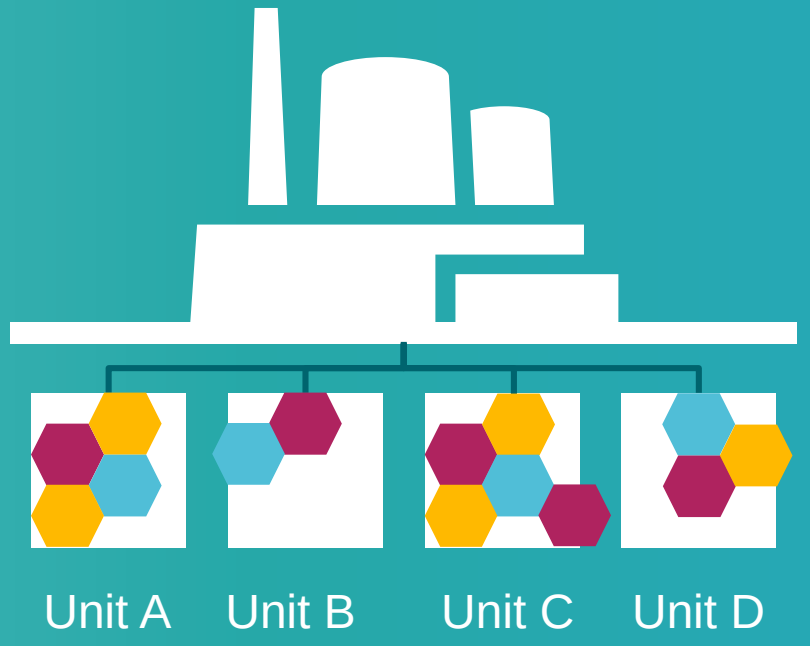
From modularization of a plant …



… to modular production



What is the benefit

- Better interoperability with easy and flexible integration of manufacturer independent process modules.
- Plug-and-Produce on the technological level.
- Supervisory control of large hierarchical systems, with the comfort of an integrated Process Control approach.

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reThink Scalability: Modular Automation
Integration based on open standards: Module Type Packages

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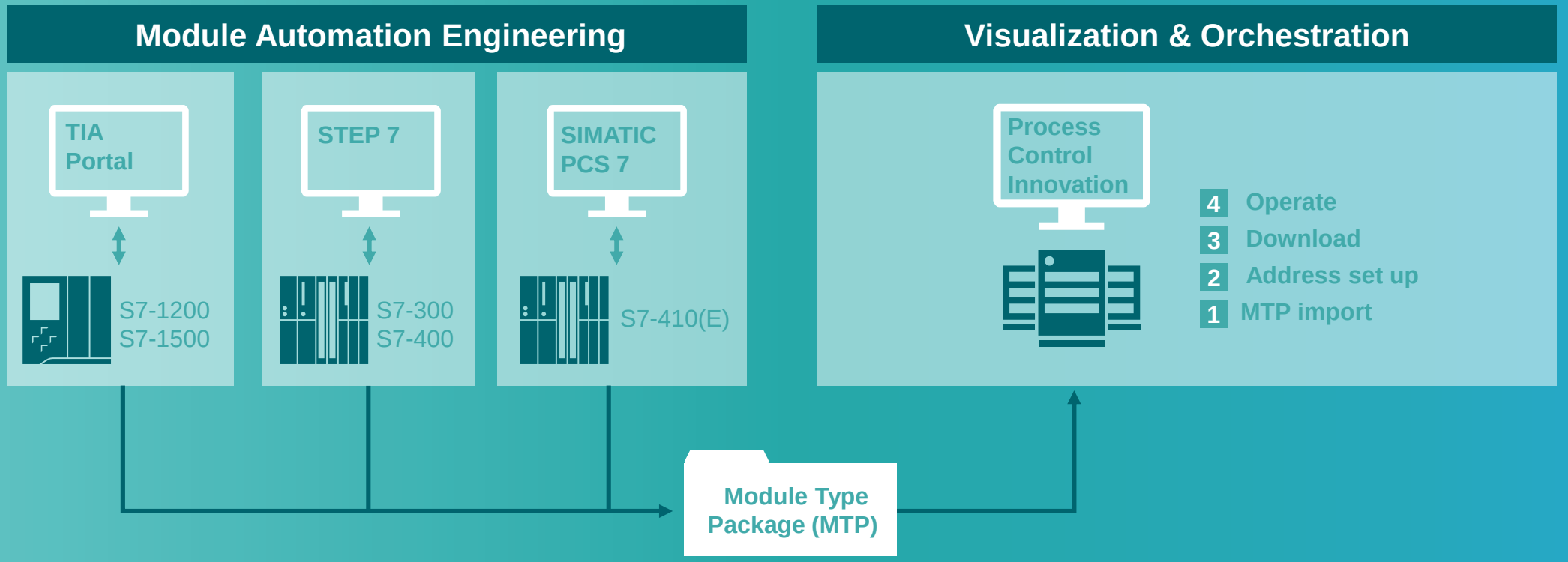

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Live demo Scalability
Import Modular Type Package

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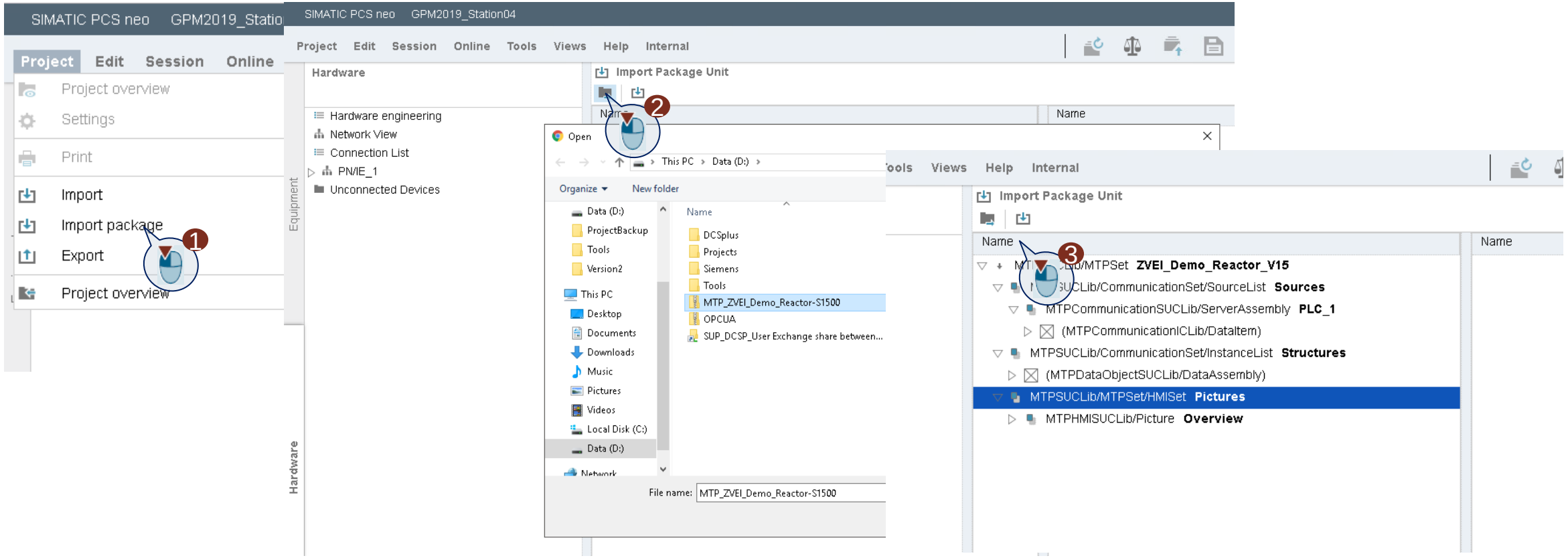
Fast and easy integration of manufacturer independent modular type packages



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Live demo Scalability
Modular Type Package

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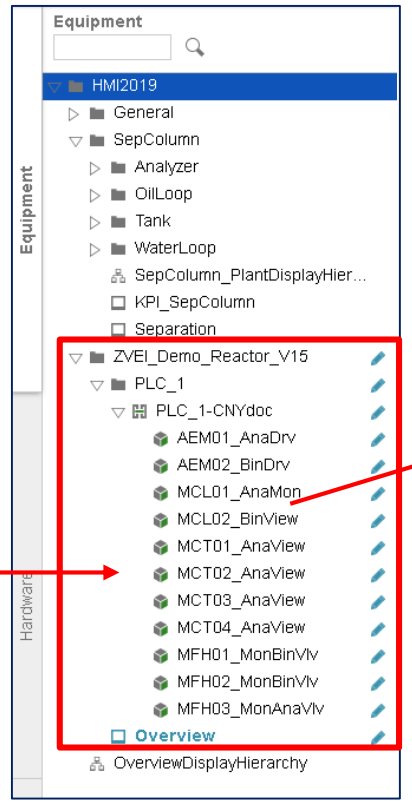
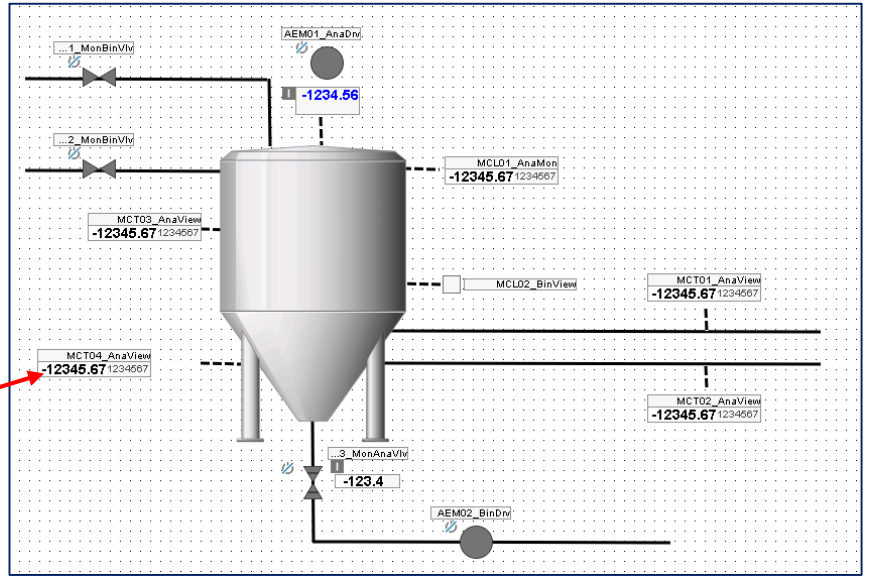
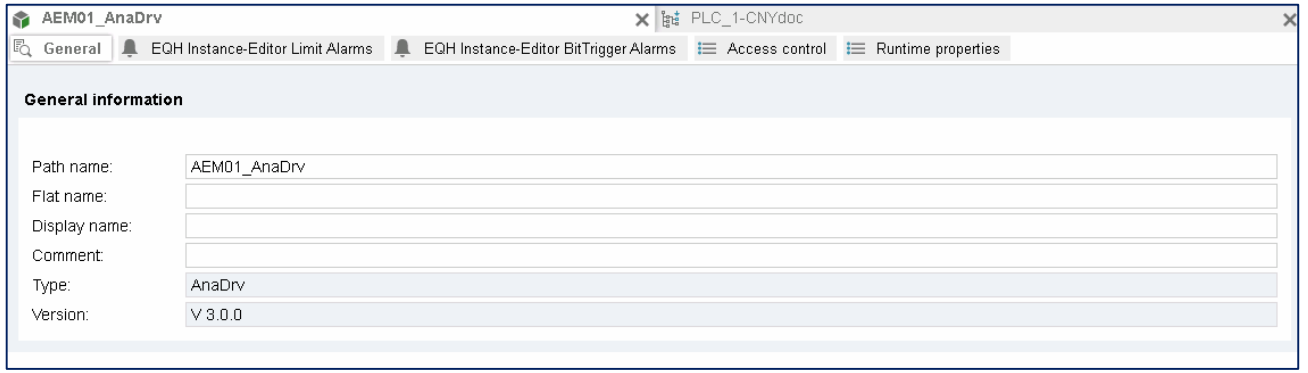
Same look and feel for the operator

Connectivity objects







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System Scalability

Imagine situation …

A pharmaceutical start-up that automates its production for the first time.
They need easy entry and no limitations for the future.

What is the benefit

- Easily adapt to changing plant requirements, with the freely scalable system.
- Take advantage of all of the process control capabilities, regardless of plant size or application complexity, with a reduced system overhead. – Benefit from DCS functionalities in applications done with SCADA so far.
- Save time and costs, with re-use of pre-tested engineering templates over different projects.
- Provide the flexibility to bind to different plant configurations with hardware neutral templates.

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Head of Process Automation
in a Pharmaceutical Plant

reThink

The SIMATIC PCS neo system enables:

- to extend from small and parallel to very big in the future
- re-usability of pre-tested engineering standards (e.g. a package unit that has been integrated in a smaller application).

It starts with small scale by the use of process objects and can be extended to equipment modules up to units and using templates

The system can easily be adapted to changing plant sizes.

Starting to “reThink” Process Automation
to accelerate the digital transformation

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reThink
Collaboration

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reThink Collaboration

Flexible project engineering on one central data basis

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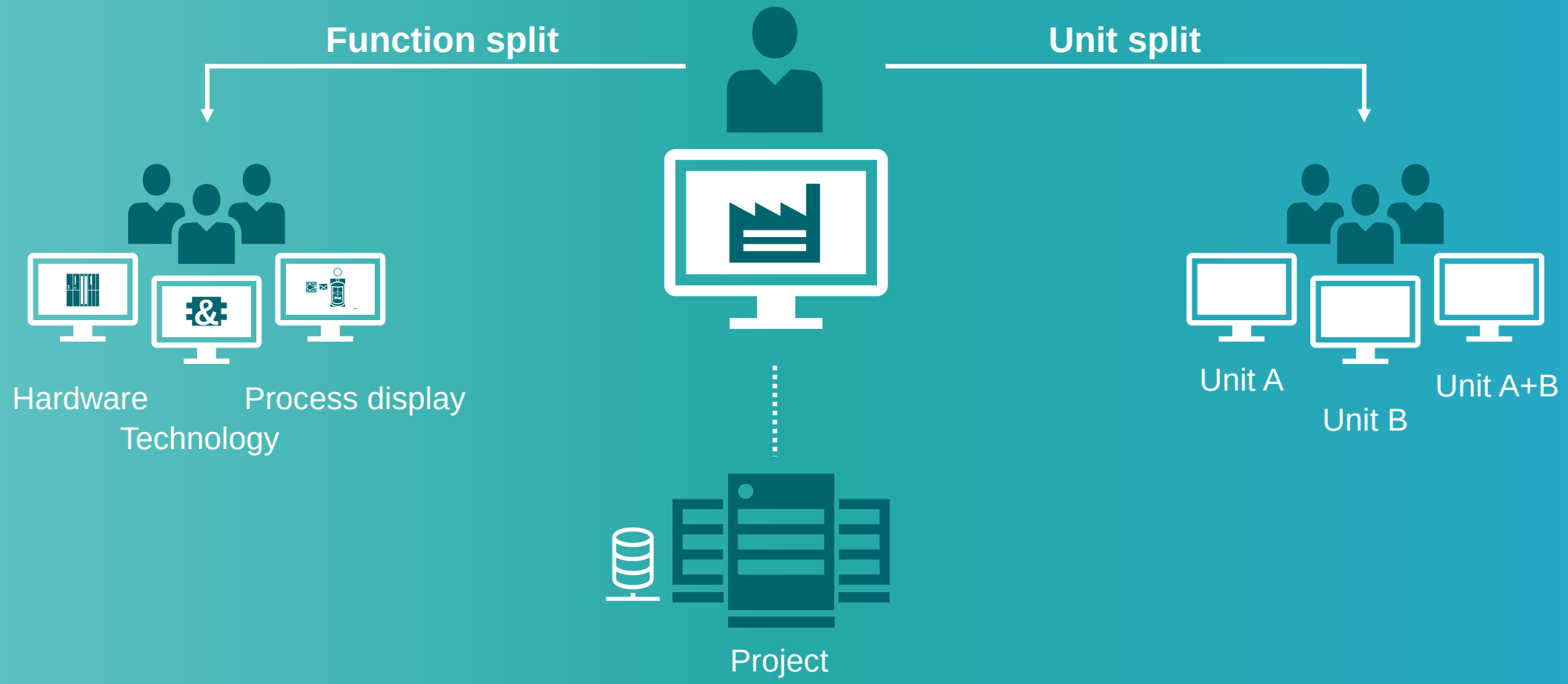

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reThink Collaboration
Late hardware binding

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Hardware Engineering (HW addresses)

ASo1.Module01.Channel01
ASo1.Module01.Channel02
ASo1.Module01.Channel03
...

...

Signal Editor

Technological Engineering (Signals)

Valve001.IsClosed
Valve001.IsOpen
Valve001.CmdClose
Valve001.CmdOpen

...

...

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Live demo Collaboration
Multi User Engineering

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Global expertise with on-demand availability –execute project tasks in parallel to reduce time to market

States of an object

Object is locked by me. Only I can edit this object. Object is locked for other until I publish my session.

Object is locked by another session. Object is locked for me. I cannot edit this object.

Object is edited by me.

Object is edited and published by another session. I can update the content from the root project to update my session.

The state of an object under this folder has changed.

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Live demo Collaboration
Pending Changes

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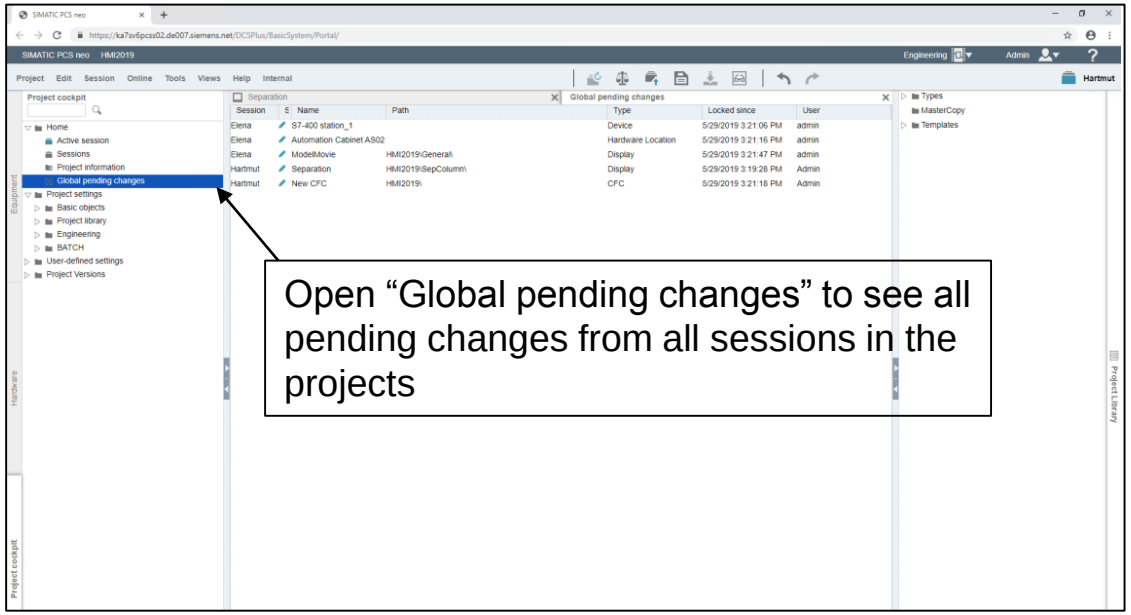
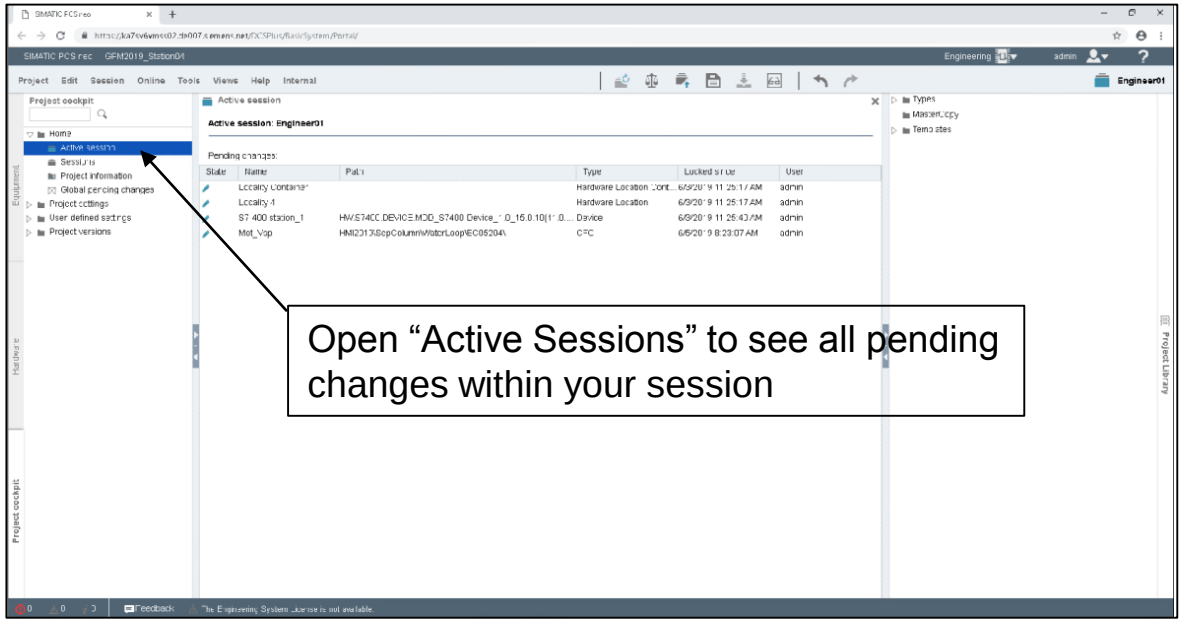
Multiuser Engineering coordination -Overview of pending changes





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Live demo Collaboration
Project Versioning

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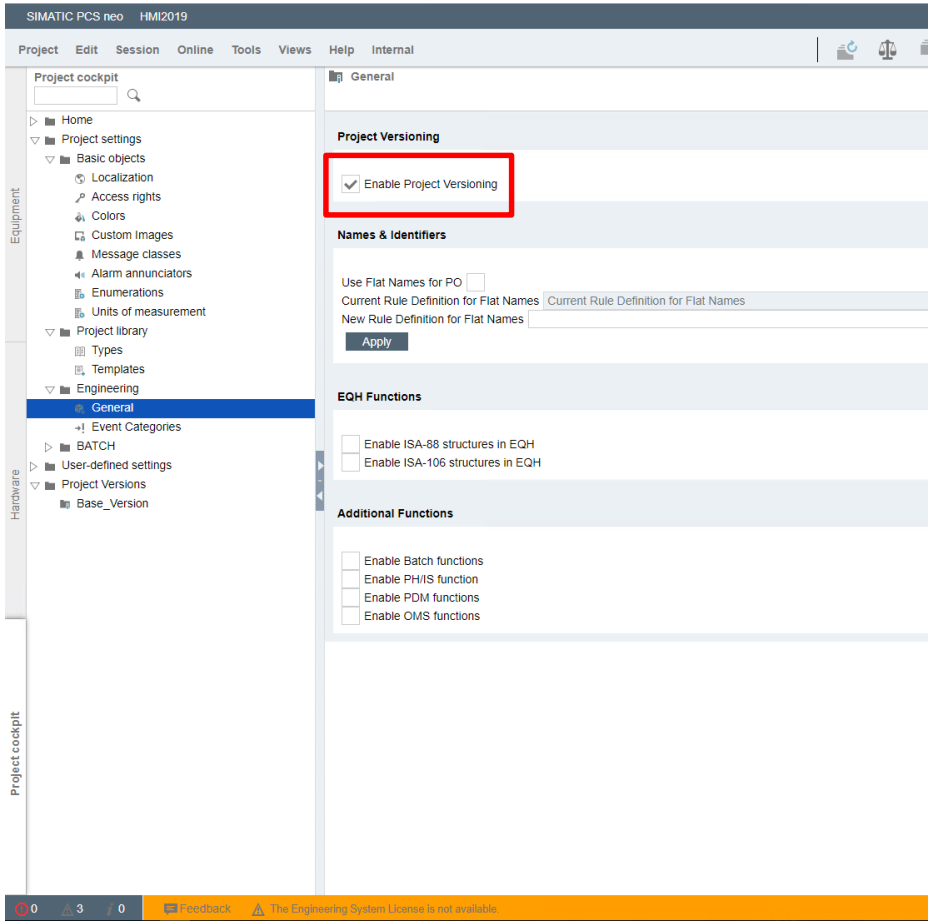
Automatic project versioning provides ‘Rollback’ functionality –return to any state of the project at any time.



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System Collaboration

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Imagine situation …

The project manager gets a lot of pressure from the management, the project is under a very high time pressure, but the commissioning date cannot be moved. In this situation we have to get additional resources that may work abroad.

What is the benefit

- Leverage global expertise with on-demand availability.
- Ensure project consistency with system supported change management.
- Faster time to market, as automation and project tasks can be executed in parallel.

Easy and Secure System Access and Multi Session Management for parallel editing of many (>30) engineers!

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reThink

With SIMATIC PCS neo Engineering you can distribute engineering tasks globally and split

Project can be divided by tasks, process unites etc. very flexibly!

Reduce engineering times, flexible allocate resources. Get most experienced and available resources optimally integrated in an engineering task

Agenda Innovation Day
SIMATIC PCS neo

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Process Industries

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Starting to “reThink” Process Automation
to accelerate the digital transformation

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reThink
Digitalization

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SIMATIC PCS neo
neo Digitalization

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Beyond existing systems and architectures

Simulation
and Optimization
SIMIT

DCS Software
Innovation

Plant Design
COMOS

DCS Hardware
Innovation

Digital Twin Inside

MindSphere

Web technology

Global collabo-ration

Safety & Security

One system based on process objects

Scalability

System usability

Modular Automation

Process and Plant Design | Engineering and Commissioning | Operation | Service

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SIMATIC PCS neo
neo Digitalization

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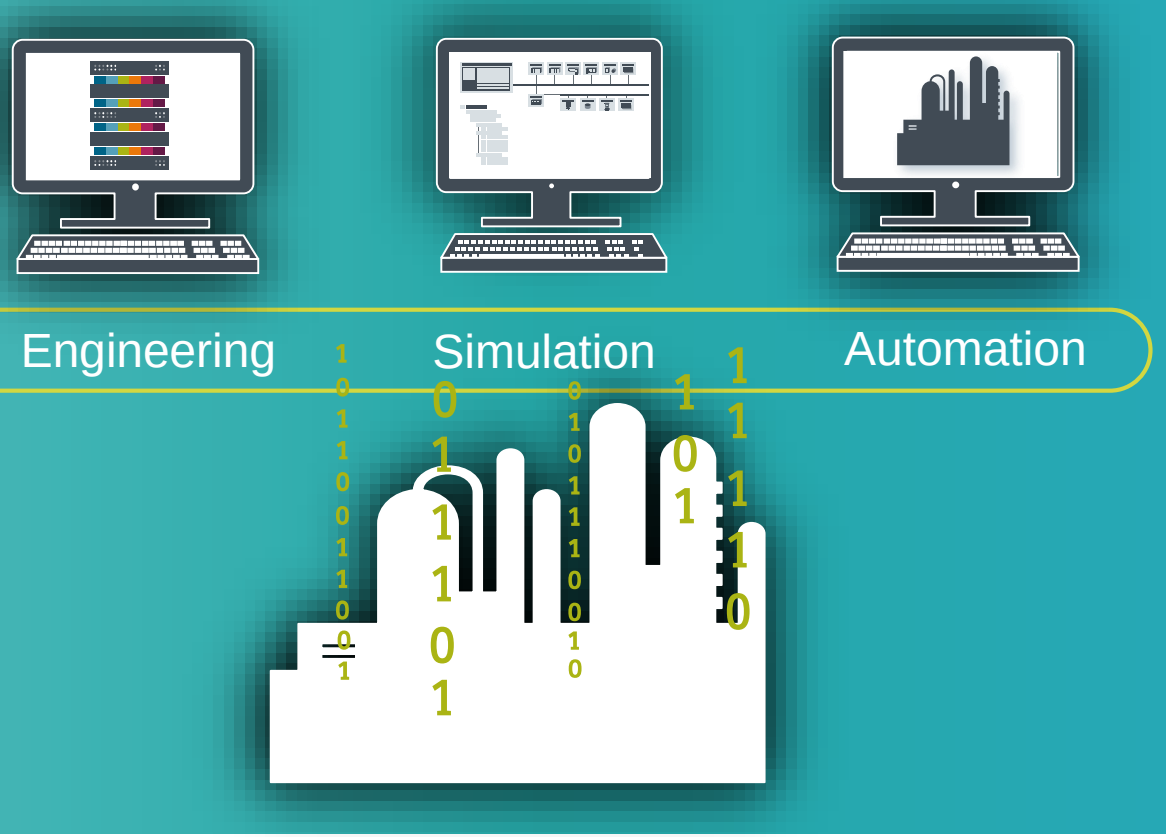
Integrated Engineering, Simulation and Automation enabling the digital twin inside over the entire lifecycle

Digital Twin inside

Virtual commis-sioning

Scenario Operator Training

Workflow integration



Enhanced productivity

Smart process data

Ease of use

Efficient reuse of eng. data

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Starting to “reThink” Process Automation
to accelerate the digital transformation

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reThink
Cyber Security

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Security as a top priority today and tomorrow

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Plant security
- Physical access protection
- Process and guidelines

Network security
- Cell protection
- Firewall, VPN
- Inhouse network portfolio & know-how

Web security
- SSL, certificate

System integrity
- System hardening
- Process and guidelines

Security always matters

- TÜV certification of product life cycle process based on IEC 62443-4-1
- TÜV certification based on IEC 62443-3-3
- Product development is compliant with current IACS Security Standards
- Process Control Innovation will be compliant with current IACS Security Standards

Charter of Trust

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Security is a “built-in” element of PCS neo!

Optimized security in plant operation with lowest effort for our customers

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- **Security by Default**
  - PCS neo will provide full Security - right from the Installation
  - Security-features can be de-selected, to adopt customer needs
- **Secure Access**
  - All functions require Authentication and Authorization (single sign-on)
  - 2-factor Authentication for critical functions
- **Central Administration**
  - Full transparency on the Security Level and Security Events
  - Ease of Administration to maintain Protection-Level over the plant lifecyle
- **Security by Design**
  - Encrypted system communication based on Certificates
  - IEC 62443-conform development process, "Secure Coding" Guidelines
- **Defense in Depth**
  - Continue PCS 7-proven „bolted-on“ Security portfolio with Firewalls and Network Components, Virus Scanners and Anomaly Detection

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A comprehensive grows further …

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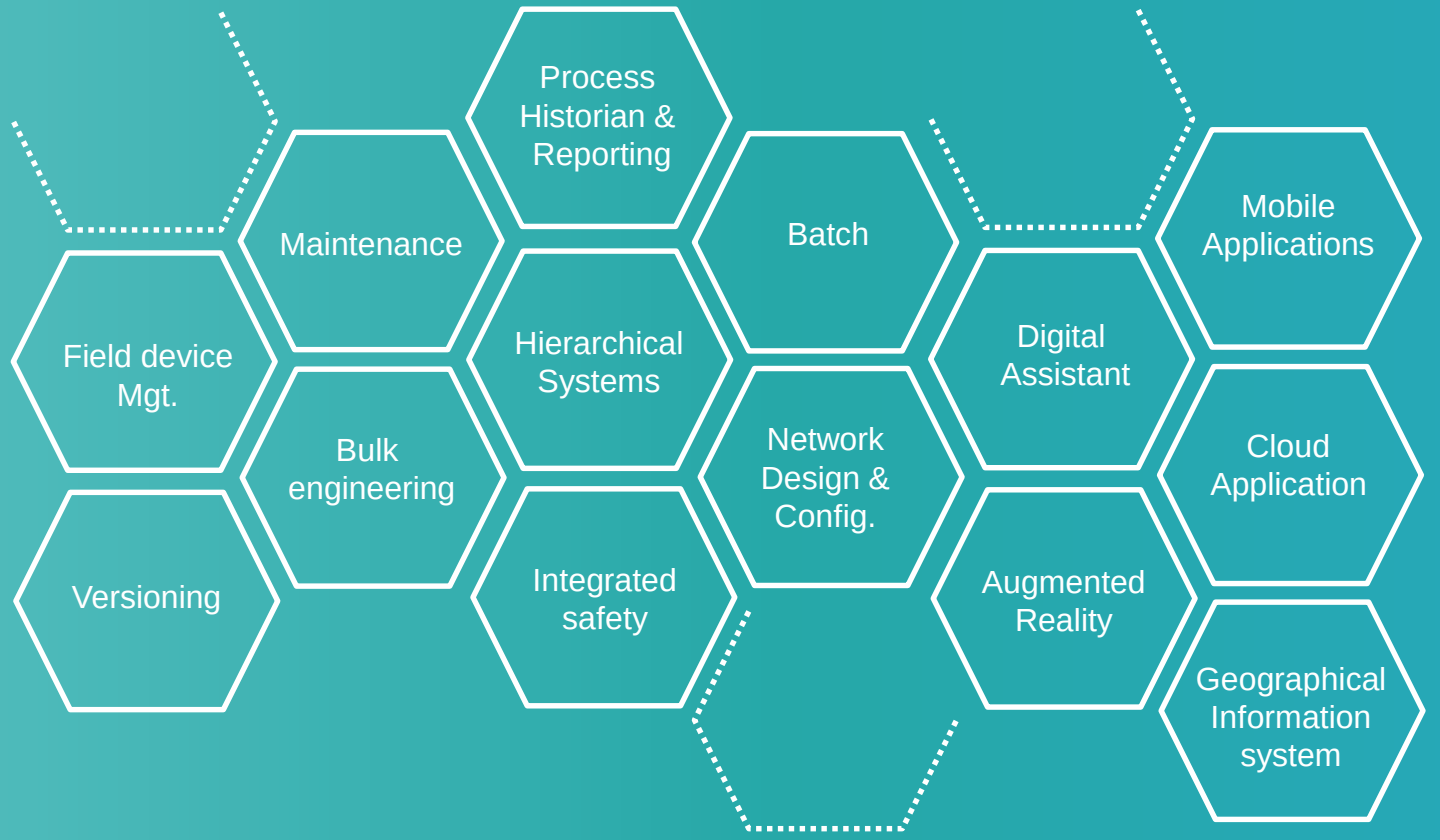

….and the innovation will continue!

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The common hardware basis for future innovation…

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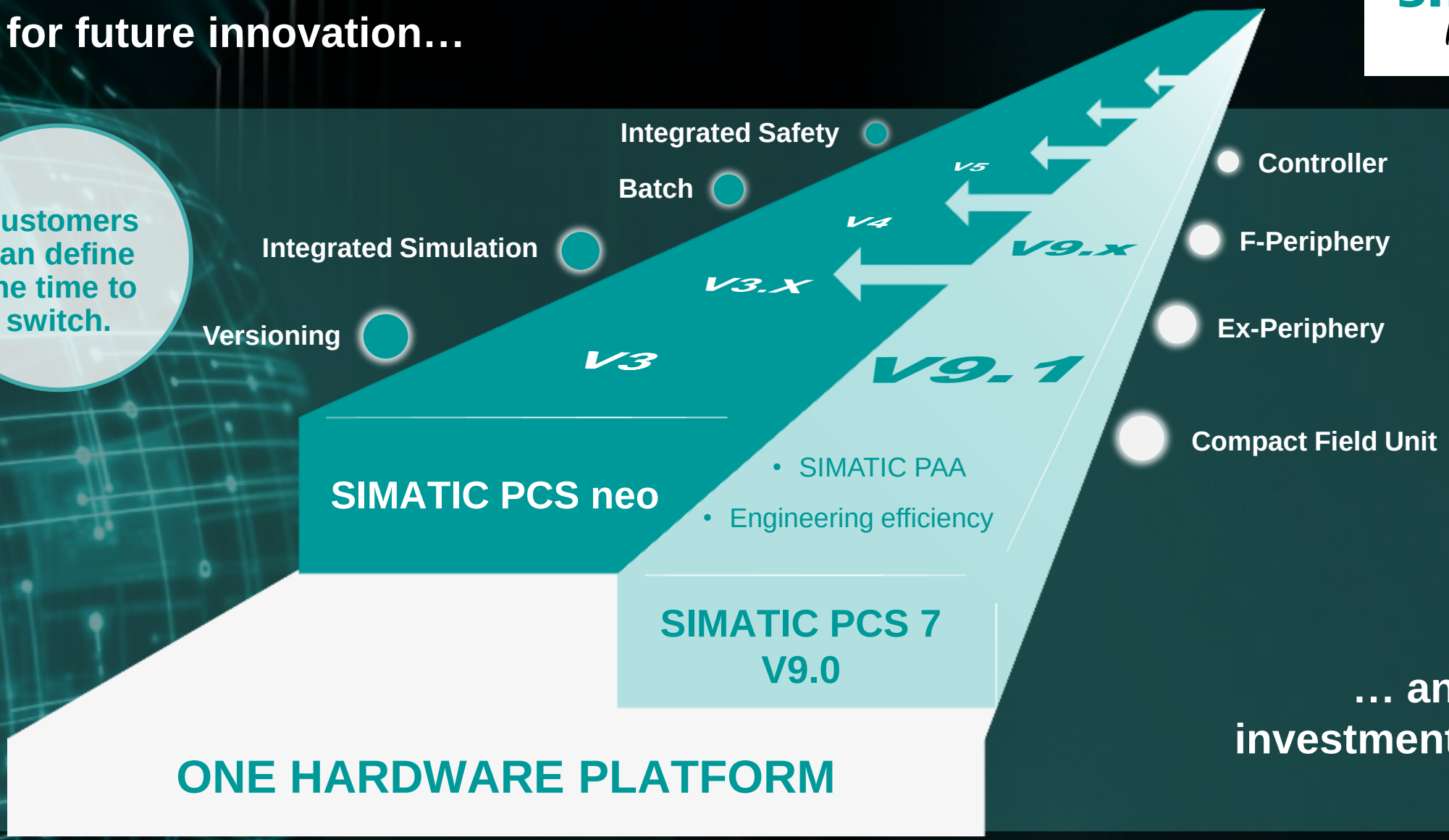
Customers can define the time to switch.



… and maximum investment protection!

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Q&A

Thank you –

Welcome to the Future of Process Automation at SPS Fair 2019

Agenda Innovation Day
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