SIMATIC PCS 7 Modernization

Sales Slides

SIMATIC PCS 7 Modernization

Process Historian Modernization

DCS Modernization Services

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Modernize your SIMATIC PCS 7 System
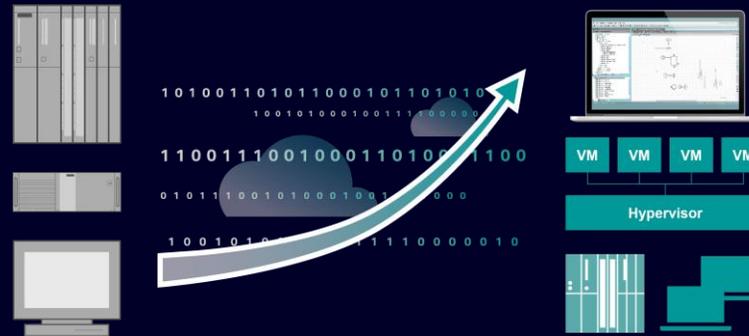## with SIMATIC PCS 7 Modernization

DCS Modernization Services provide holistic and tailored support for the modernization of DCS systems and the preparation for upgrading to SIMATIC PCS neo.

To ensure continued operational excellence and leverage the latest technological advancements, SIMATIC PCS 7 Modernization is a crucial step for future-proofing your industrial processes.

Solution and Service

According to the customer priorities, different solutions are possible for our DCS Modernization Service:

- Project execution at HQ with experienced lead engineer
- Conversion to the current state with additional options
- Minimal risk (extensive HQ FAT in advance, simulation)
- Cost-effective conversion (without new functions)
- Partial services

Your value

High quality of the upgrade and thus short stop times

Clear responsibilities and many years of modernization expertise

Benefit from greater future-proofing by preparing for future systems

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Modernize your SIMATIC PCS 7 System
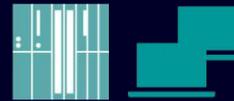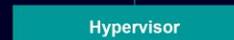## with SIMATIC PCS 7 Modernization

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Challenge

Are the SIMATIC PCS 7 hardware and operating systems outdated?

How can we effectively address the challenges of **ensuring continuous and safe operation for a modernized SIMATIC PCS 7 system** over its full operational lifespan?

How can we overcome the challenges of **ensuring ongoing serviceability and technical support for SIMATIC PCS 7 systems** after a modernization?

How can **current cybersecurity standards be effectively integrated and continuously maintained** during and after a modernization of SIMATIC PCS 7?
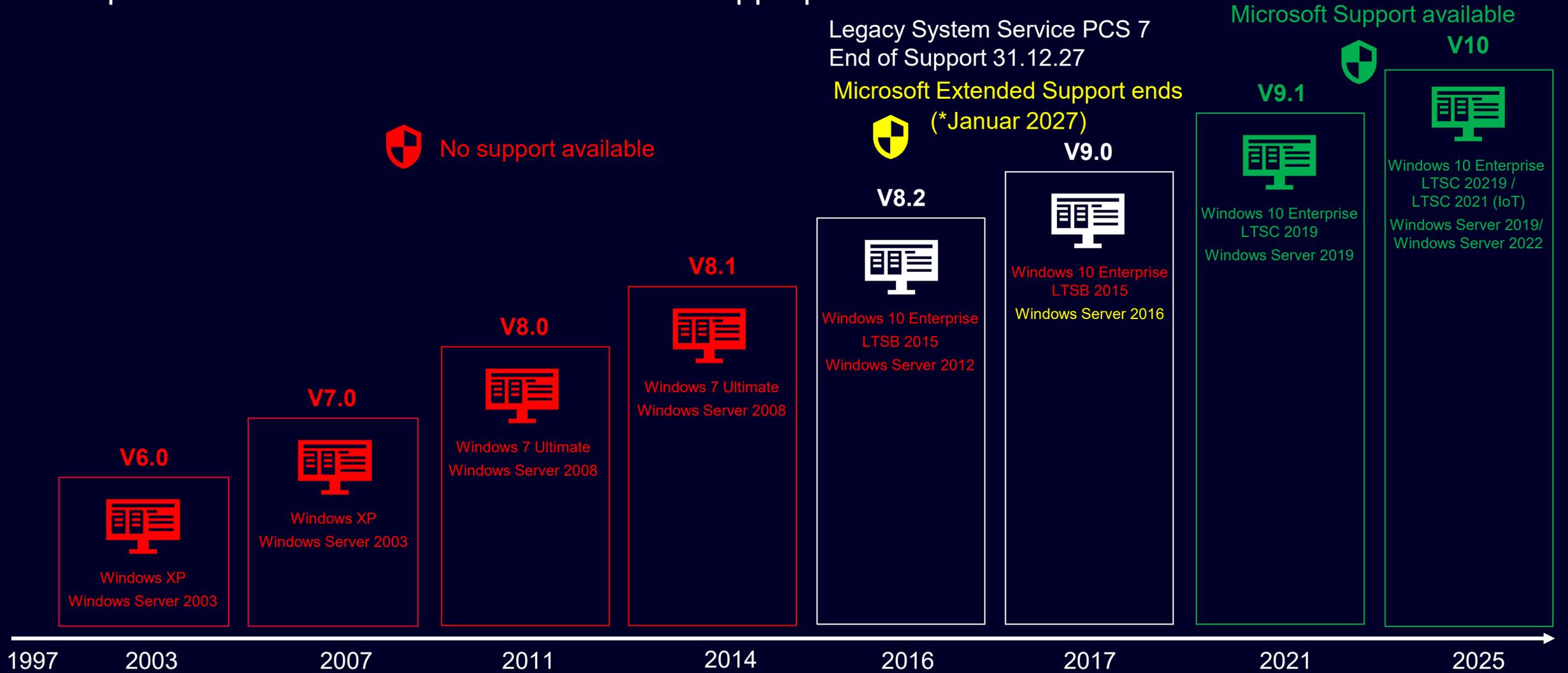
How can **long-term investment protection and future-proofing** for a SIMATIC PCS 7 modernization project be secured?

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More than 20 years of Microsoft Windows
Comparison of SIMATIC PCS 7 versions and appropriate Windows versions

Legacy System Service PCS 7
End of Support 31.12.27

Microsoft Support available

Microsoft Extended Support ends
(*Januar 2027)

No support available

V10

V9.1

V9.0

V8.2

Windows 10 Enterprise
LTSC 20219 /
LTSC 2021 (IoT)

Windows Server 2019/
Windows Server 2022

Windows 10 Enterprise
LTSC 2019

Windows Server 2019

Windows 10 Enterprise
LTSB 2015

Windows Server 2016

Windows 10 Enterprise
LTSB 2015

Windows Server 2012

V8.1

Windows 7 Ultimate

Windows Server 2008

V8.0

Windows 7 Ultimate

Windows Server 2008

V7.0

Windows XP

Windows Server 2003

V6.0

Windows XP

Windows Server 2003

| 1997 | 2003 | 2007 | 2011 | 2014 | 2016 | 2017 | 2021 | 2025 |

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Modernization of SIMATIC PCS 7 Systems

SIMATIC PCS 7 Modernization

The modernization will be carried out jointly with Siemens Region

Possible work packages:
- Project analysis
- Installation and setup of the new HW (IPC or virtual)
- Project upgrade SIMATIC PCS 7 to current status
- Library exchange to APL (Ready for SIMATIC PCS neo)
- Standardization (preparation for lifecycle service contract)
- HQ-FAT [1] at own test installation also remotely
- Commissioning support

Options:

- Image adaptations for widescreen monitors with new resolution – SIMATIC PCS 7 OS PDL's
- Conversion to new curve design – SIMATIC PCS 7 OS / Trends
- Conversion and standardization of CFC structures to CM/ CMT[2] – SIMATIC PCS 7 Engineering
- SIMATIC Process Historian / Information Sever upgrade

[1] Head Quarter Factory Acceptance Test; 2 Control Modul/ Control Module Type

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Modernization of SIMATIC PCS 7 Systems

SIMATIC PCS 7 Modernization offer...

- Upgrades of older SIMATIC PCS 7 versions to the current version
- Optional preparation for future conversion to SIMATIC PCS neo
- Preparation of the system for a lifecycle service contract
- Support for the modernization of TELEPERM M systems

SIMATIC PCS 7 V6.1 → SIMATIC PCS 7 V7.1 → SIMATIC PCS 7 V8.2 → SIMATIC PCS 7 V9.1 V10 → *Library exchange to APL* → SIMATIC PCS 7 V9.1 V10
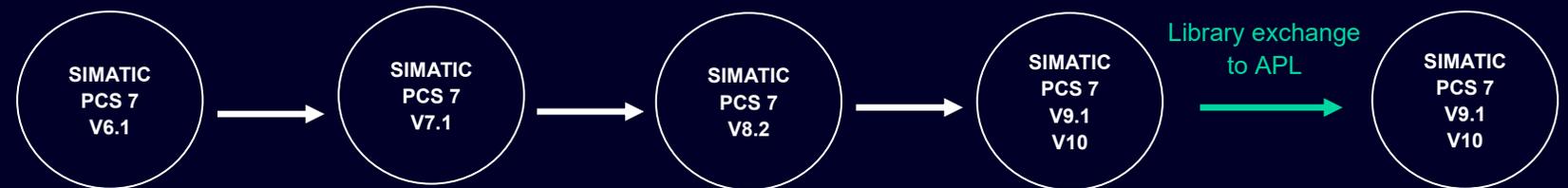
Possible priorities

- Conversion to the current status with all available options.
- Cost-effective conversion (without new functions)
- Minimal technical risk (extensive testing in advance)
- Short or no downtimes

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One-stop Service

Additional services

- Library exchange to APL[1]
- Virtualization with SIVaaS[2]
- Process Historian upgrades with SIDSI[3]
- Advanced project processing with HQ- FAT[4]

According to the customer priorities different solutions are possible

- Project execution at HQ with experienced lead engineer
- Conversion to the current state with additional options
- Minimal risk (extensive FAT in advance, simulation)
- Cost-effective conversion (without new functions)
- Partial services possible

1 Advanced Process Library; 2 SIMATIC Virtualization as a Service;
3 SIMATIC DCS/SCADA Infrastructure; 4 Head Quarter Factory Acceptance Test

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SIMATIC PCS 7 Modernization
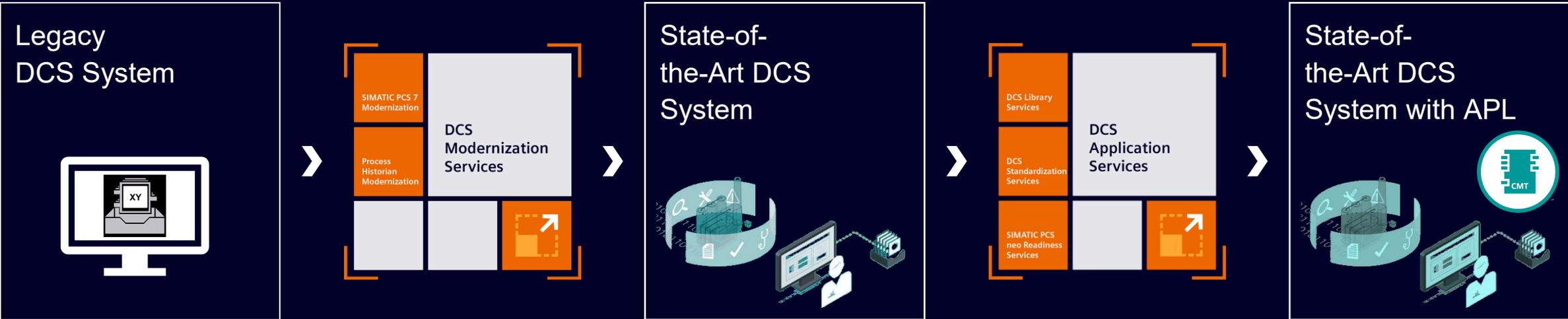## DCS Application und DCS Modernization Services

Modernization

Software Upgrade	Application Modernization
e.g. SIMATIC PCS 7 V6/7 → SIMATIC PCS 7 V10, Process Historian (PH) Data Services	e.g. SIMATIC PCS 7 Library → APL[1]

Legacy DCS System

SIMATIC PCS 7 Modernization

Process Historian Modernization

DCS Modernization Services

State-of-the-Art DCS System

DCS Library Services

DCS Standardization Services

SIMATIC PCS neo Readiness Services

DCS Application Services

State-of-the-Art DCS System with APL

CMT

[1] APL: Advanced Process Library

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DCS Application & Modernization Services
## Modular Modernization approach –Evolution path from PCS 7 to PCS neo

SIMATIC PCS 7 7 Modernization

Process Historian Modernization

DCS Modernization Services

SIMATIC PCS neo Readiness Services

DCS Library Services

DCS Standardization Services

SIMATIC PCS neo Readiness Services

DCS Application Services

SIMATIC PCS 7

Starts with readiness

1 Software

2 Library

3 CPU Periphery*

4 PCS neo

SIMATIC PCS neo

Software upgrade to SIMATIC PCS 7 V9.1/V10

Library upgrade on SIMATIC PCS 7 APL/CMT

Controller upgrade on SIMATIC CPU 410 Periphery upgrade from SIMATIC ET 200M to SIMATIC ET 200SP HA*

Upgrade to PCS neo

Standardize & get PCS neo ready

Be PCS neo!

Evolution Path

*While this step is not critical for the overall evolution, it is recommended to ensure a long-term plant lifecycle.

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SIMATIC PCS 7 Modernization
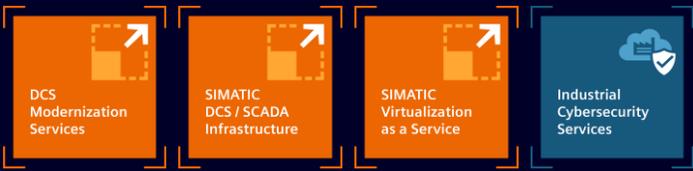## Positioning within the modernization portfolio

Legacy System
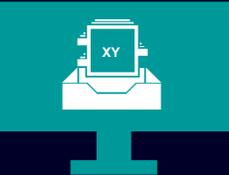
Standardized Modernization Portfolio Elements

State-of-the-Art System

Service Contracts

Application Upgrade

DCS Application Services

DCS Library Services

DCS Standardization Services

SIMATIC PCS neo Readiness Services

DCS Application Services

System Upgrade (z.B. SIMATIC PCS 7 Version X → SIMATIC PCS 7 Version Y)

DCS Modernization Services

SIMATIC DCS / SCADA Infrastructure

SIMATIC Virtualization as a Service

Industrial Cybersecurity Services

Zusatzpakete

SIMATIC Software Platform as a Service

Power Control Integration Services

Multi-Vendor Device Integration

Remote Services

SIMATIC System Audit

CMT

Industrial Automation DataCenter

Managed System Services

Lifecycle Services Contract

Lifecycle Management Suite

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Why should you choose SIMATIC PCS 7 Modernization?

Proven Services from one single source

Benefit from a comprehensive modernization expertise for clear responsibilities and minimized downtimes of your plant.

Automated Workflows

Ensuring high quality, driven by the innovative use of current and future DCS technologies.

Secured long-term investment protection

By reducing time and costs associated with future system upgrades.

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Highlight from DI CS PA regarding
DCS Modernization Services

Petrochemical Company

This consortium (formed by three companies) is a pioneer in industrial development within a key region, focused on fostering private investment in the petrochemical sector.

Customer objectives
- Reduce maintenance costs for equipment - the current SIMATIC PCS 7 hardware is outdated and the MFL library is no longer supported.
- Initiation of cybersecurity measures, as the current SIMATIC PCS 7 system does not include cybersecurity measures.

Solution and Service
- Siemens local DI CS SA team cooperate with Siemens DI CS HQ team
- DI CS Upgrade Factory portfolios were used throughout the project:
    - AS/OS Analysis for details of the project
    - Library exchange from MFL to APL using DCS Library Services (DCS Application Services)
    - Changeover to SIMATIC Virtualization as a Service (SIVaaS) system
    - DI CS HQ/ SA technical experts to perform the entire SIMATIC PCS 7 Upgrade using DCS Modernization Services from HQ with Factory Acceptance Test on original customer Hardware in Karlsruhe, Germany with handover to SIEMENS SA

Customer benefits
- Saving energy and maintenance costs with the new SIVaaS system
- Prevention of maintenance costs for legacy systems
- Increased reliability and stability of the system
- Achieving a certain level of cybersecurity and flexibility to expand after the upgrade

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Highlight from DI CS PA regarding
DCS Modernization Services

Utility and Energy Company

This publicly listed, European-headquartered company is a leader in essential utility and environmental solutions, including water, waste, energy, and transport. It employs approximately 171,000 people globally.

Customer objectives

- The Company wanted to migrate the plant to SIMATIC PCS 7 to ensure plant operation and to modernize the software and hardware.
- Later, upgrading to the current version and replacing the library was important to regain serviceability and remain innovative.

Solution and Service

- 2008: Modernization of Teleperm to SIMATIC PCS 7 V7.0
- 2020: Phase 1: Upgrade SIMATIC PCS 7 V7.0 > V9.0 SP2 DCS Modernization Services, SiVaaS, SIDSI (Backup & Restore, PH)
- 2021: Phase 2: Library replacement to APL (DCS Library Services)
- 202x: Phase 3: Replacement of coupled S5 with SIMATIC PCS 7 integrated solution (in bidding phase)

Customer benefits

- High quality of the upgrade and thus short stop times due to standardized procedure for the upgrade and structured and documented test work.
- By using APL and current SIMATIC PCS 7 version, the plant is serviceable again.
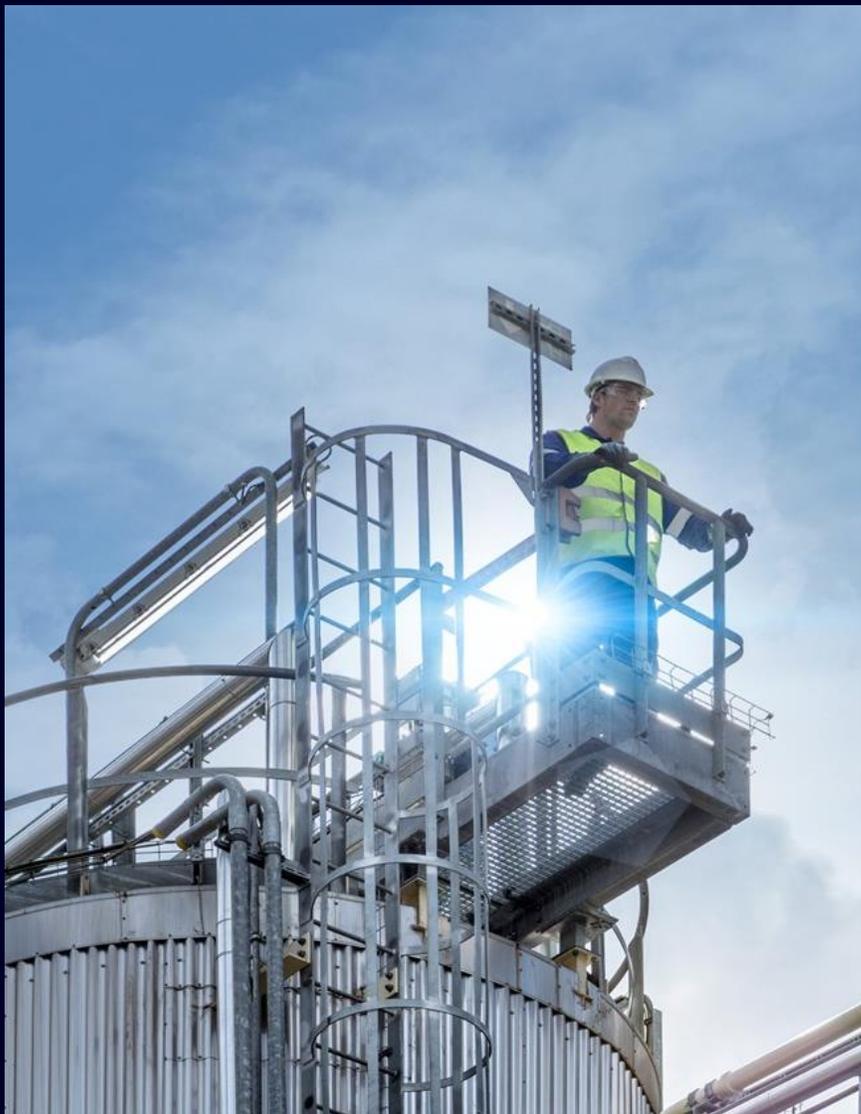
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You want to find out **more**?

| Webpage | Siemens Contact Database | Flyer: Upgrade ET 200M to ET 200SP HA |

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