Digital Twins for an efficient, sustainable & resilient water infrastructure

Blau Grüner Dialog, Anja Eimer, June 19, 2024



Siemens as strong technology partner for the water & waste water industry

Market Leader

#1 in DCS market

(27% market share)

#1 in SCADA market

(33.3% market share)

#1 in Flowmeters

(18.1% market share)

#4 in Industrial Ethernet
Switches (11.3% market share)

Global references



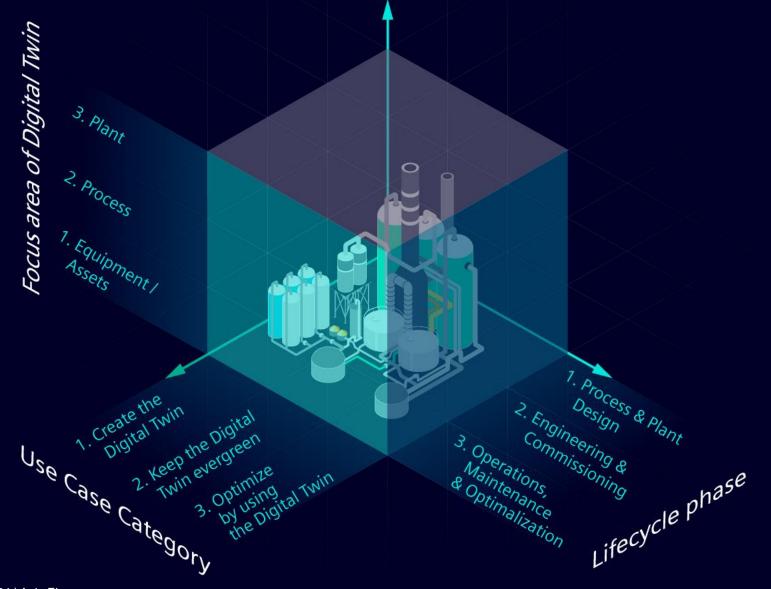
Source: ARC Study 2022

Today's water industry is facing many challenges to become more efficient, resilient and sustainable

VUCA world Regulation **Capital efficiency Labor market Climate change** Increasing Underfunded Ever new Lack of skilled Net zero regulatory infrastructure technologies workforce transition demands Increasing Loss of plant Secure water Higher risk Cyber threats number of specific know-how supply and quality of penalties extreme events



Digital Twins – A Comprehensive approach



Digital Twin for smart city development

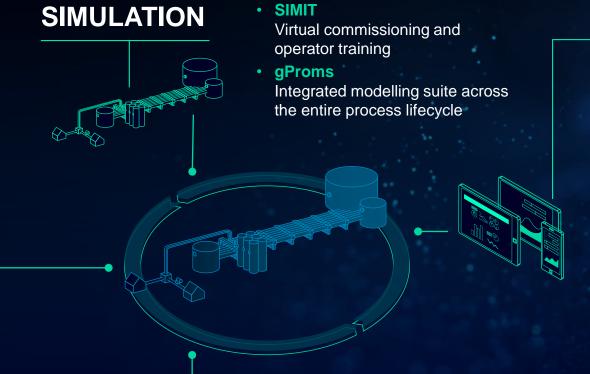
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Our digital twin approach for the water industry

• COMOS
Engineering & commissioning

- PlantSight
 One complete Digital Twin in the cloud
- Ecodomus
 BIM-enabled plant lifecycle management

ENGINEERING



AUTOMATION

- SIMATIC PCS neo/ PCS 7
 - Powerful, flexible, and scalable and web-based process control system
- TIA Portal

Total integrated automation for SCADA systems

- Simatic PAA
 Integration of automation planning
 and control technology
- Hardware

Common hardware platform and application architecture for SIMATIC PCS 7 and SIMATIC PCS neo

SIWA Suite

APPLICATIONS

for water distribution network and sewage networks

Asset management

for strategic (Brightly) and operational (myExpert, Senseeye) asset and inventory management (SITRANS Store IQ)

Operational intelligence

for monitoring of operational assets and processes, incl. SITRANS serve IQ, SITRANS SCM IQ, InsightsHub)

SIEMENS

Potential of digital twins is huge, but stronger pull required to leverage full effectiveness







Making data integration a must in each public tender (BIM Compliance)

Ensuring data availability along the complete lifecycle

Strengthening collaboration between public entities and technology provider

Thank You

