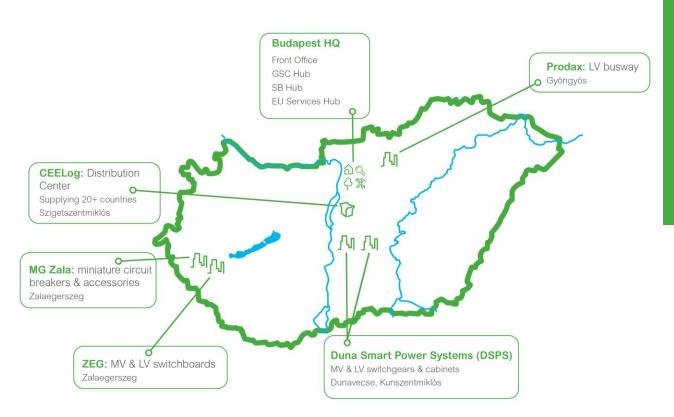


Marton Juhász - Business Leader for IA SW Solutions

Technológiai kollaboráció fontossága a vegyiparban! – Hogyan lehet segítségünkre az MI akár vegyész pályakezdőként



Schneider Electric in Hungary



- Total revenue:
 1bn EUR (940M locally)
- Top 5 biggest French company in HU
- Number of employees: 2.300



in 2025 **#1** world's most sustainable corporation



HRKOMM Award ²⁰²⁴

HR(OIM

HUGBC
Zero Carbon Award
2024

Zéró
Karben
Díj 2024



Strategic agreement
with the Hungarian government

2013



Life Is On



Schneider Electric Value Prop

Energy Management



Cooling



Data Center Infrastructure Management (DCIM)



Molded-case Breaker



Uninterrupted Power Supply, Single & 3 Phase



Final Distribution



Wiring Devices





Medium Voltage Products & Equipme

Software, Services & Sustainability











Eco**⊘**trusure Resource Advisor

EcoCare





Sustainability Consulting Energy Performance contracting (VPP)

Industrial Automation



Software-defined automation



Triconex Safety



Robotics



Foxboro
Distributed Control
System (DCS)



Programmable
Logic Controllers
(Pl Cs)



Multi-carrier Transport System



Drives & Motion



Control & Signaling



Contactors
Contactors



НМІ

DATA CENTERS









BUILDINGS



Blackstone





INDUSTRY





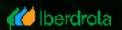




INFRASTRUCTURE





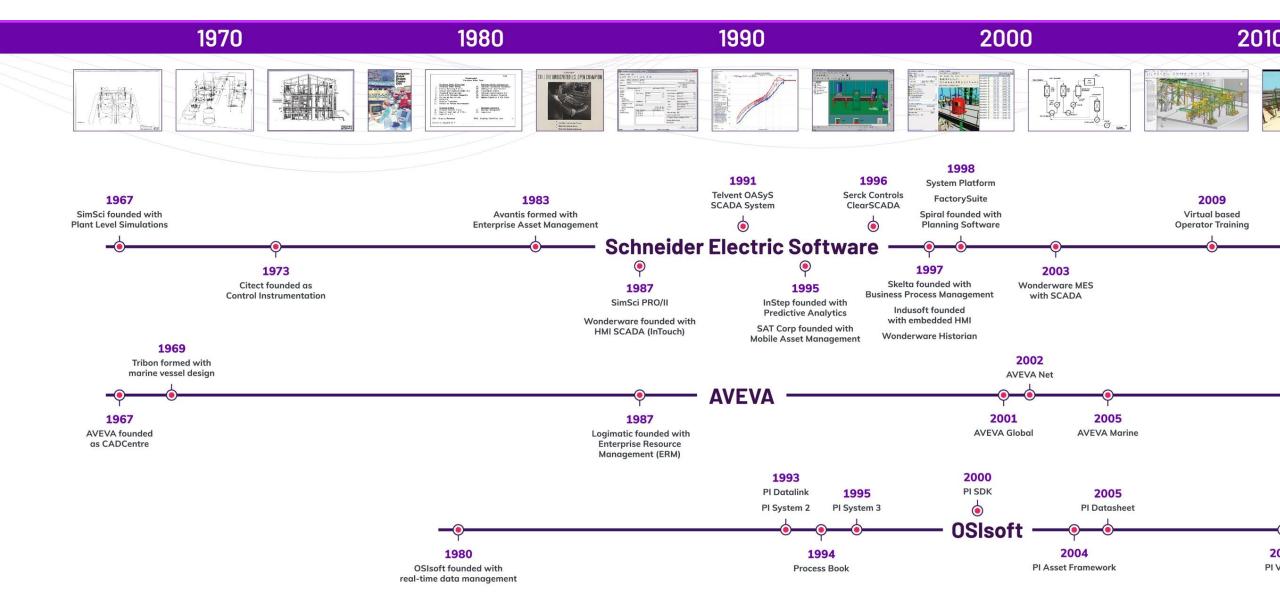






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The **evolution** of AVEVA



AVEVA









CONVECT

Data Intelligent Twin Experience **Empowered Ecosystem**









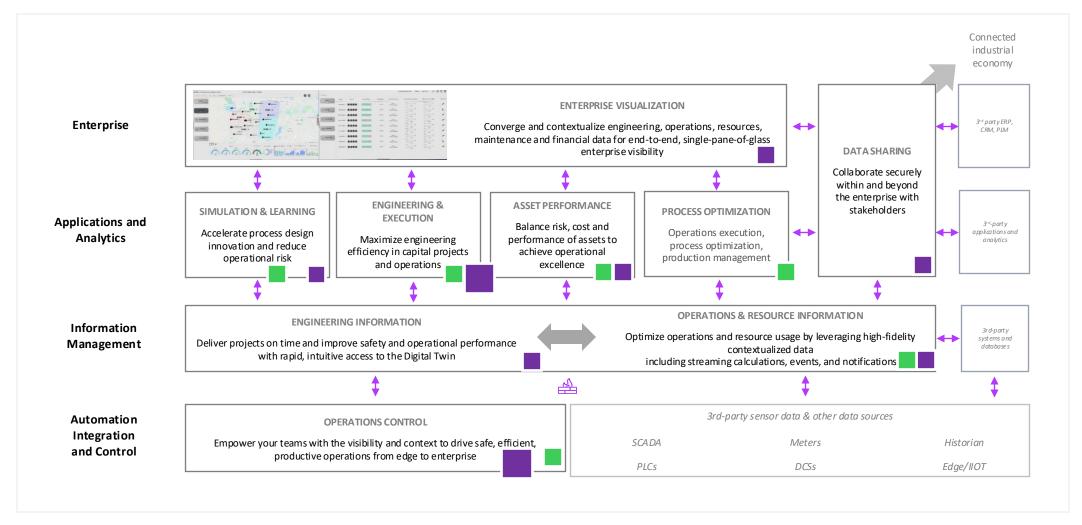
etap & RIB Schneider

IoT & Data | Software for complete Digital Twin Software, Apps, Analytics and Services Edge Control



Life Is On

AVEVA & SE: Vision of the digital platform













Design

Build

Operate

Optimize





Design Build Operate Optimize



CONECT Industrial intelligence platform

Seamless experience

Applications & analytics

Design Build Operate Optimize

Information

Operations information

Assets and devices





Engineering information





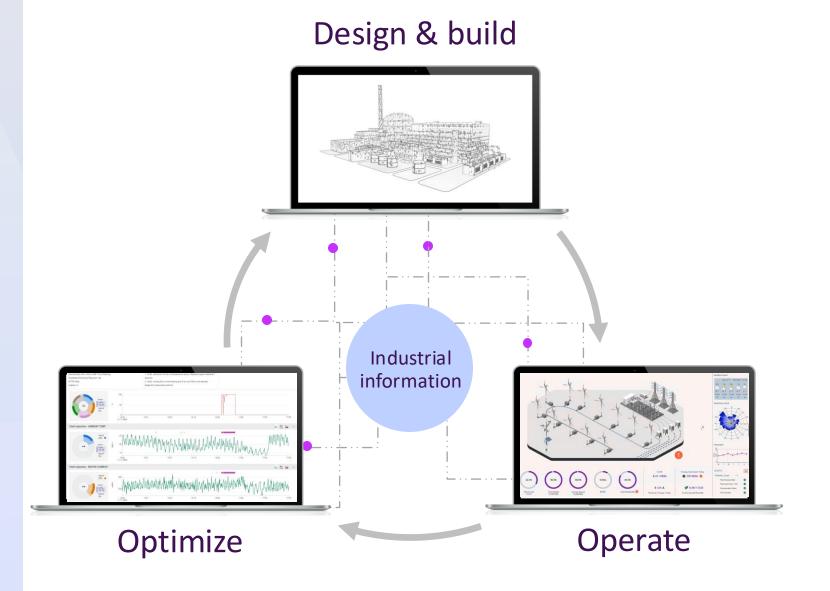


All enabled by an ecosystem of developers and partners



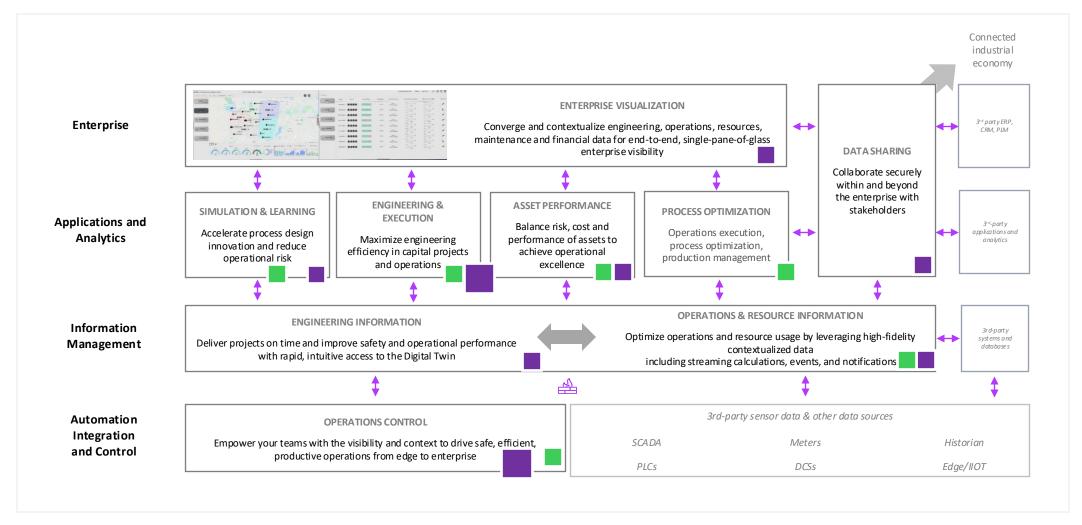


We support customers across the **entire** industrial lifecycle



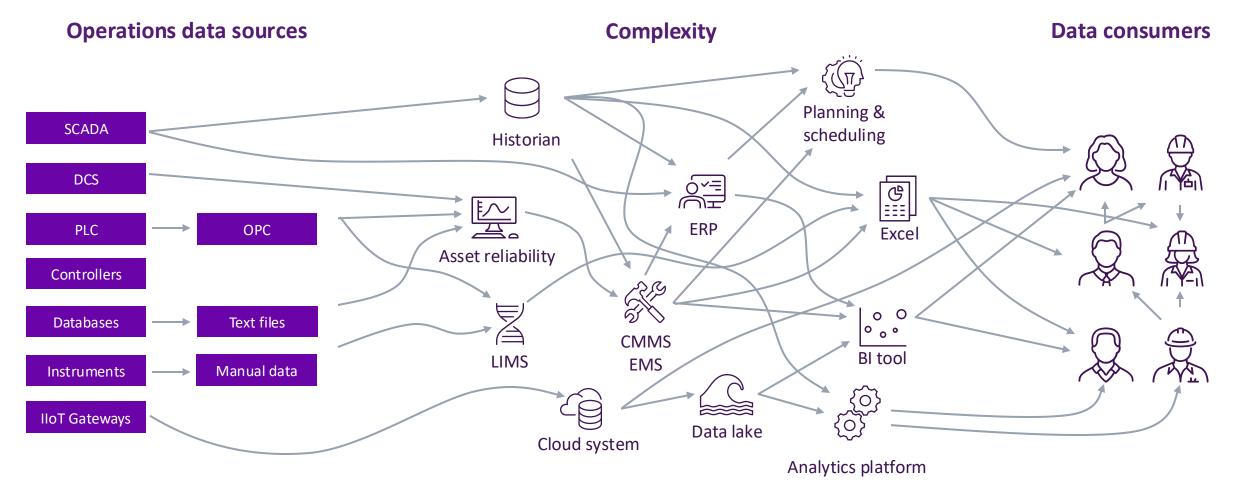


AVEVA & SE: Vision of the digital platform



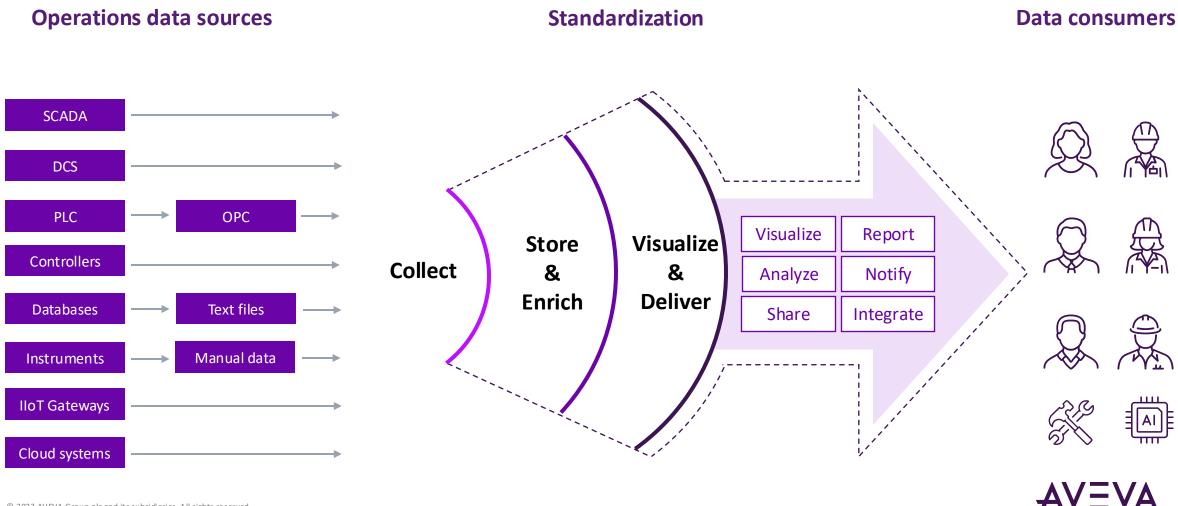


Managing operations data is complex





Connect people to data with an infrastructure approach



AVEVA PI System

Asset: ANA FCC Pump 1+ ▼ ANA FCC Pump 1 Pump 3 ANA FCC Pump 4 High Vibration Events Pump 3 BAT FCC Pump 4 **Pump Operations** C Pump 3 HOU FCC Pump 4 C Pump 3 MAR FCC Pump 4 Cavitation Events

Enterprise-class information management solution for aggregating, enriching and using real-time operational data.

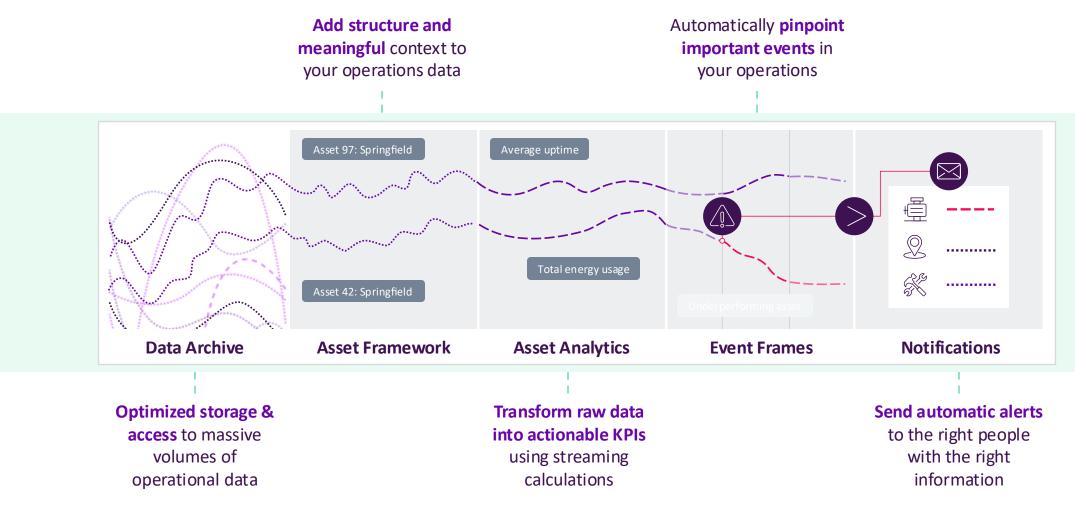
Give operations and enterprise decision makers a single, trusted data foundation.

Get code-free and highly configurable access to data and analytics, **without IT assistance**.

Format & cleanse operations data for use in analysis and reporting tools as well as advanced AI.



PI System: Turns data into decision-ready information





Typical benefits from APC



Reduced process variation



Improved product yield



Increased product quality



Increased throughput

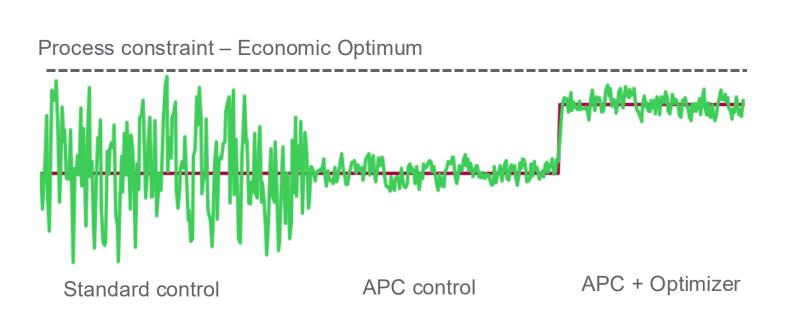


Reduced specific energy consumption



Typical ROI within 1 year







Increase process stability



Push variables to its optimum operating point



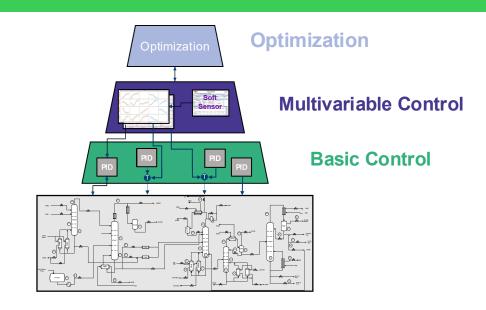
Operators focus on their regular tasks





How does the APC work?

- Works together with the basic control system (DCS) and only bypasses certain PID loops
- Can be activated/deactivated online by the operator through a dedicated screen in the HMI
- Agnostic to DCS manufacturer
- No new hardware required
- No shutdown required
- No black-box effect
- Can work together with Real Time Optimization systems (Romeo, AI,...)

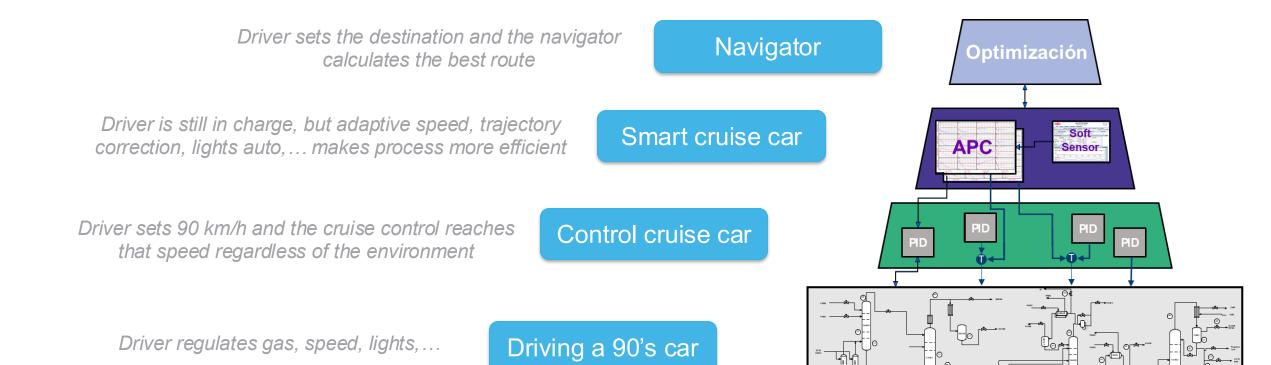














Chemicals

SVSOM

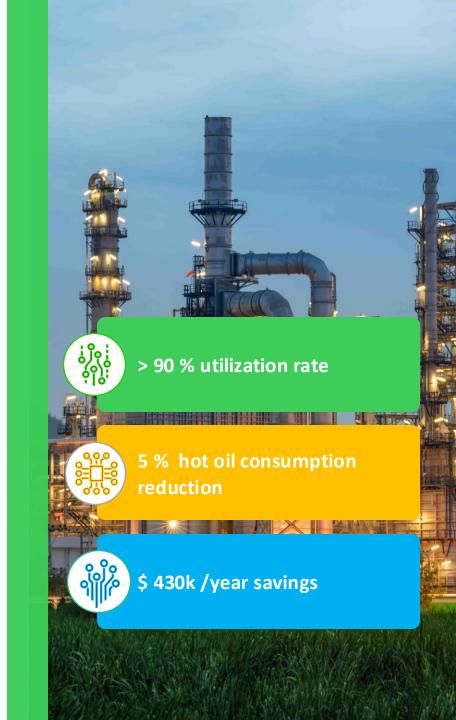
Cumene

CHALLENGE

- Increase control stability
- Reduce specific hot oil consumption

SOLUTION

- Implementation of SE APC for cumene, benzene, depropanizer and deethanizer towers
- BENEFITS
- APC utilization rate > 90 %
- 5 % reduction of specific hot oil consumption
- Increased plant stability





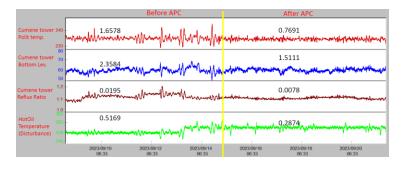


Chemicals

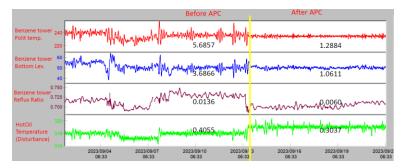
Cumene



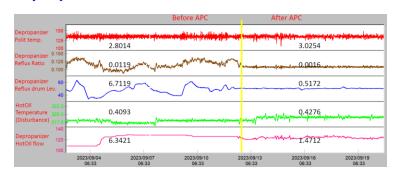
Cumene tower



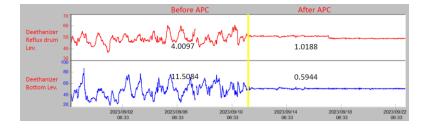
Benzene tower



Depropanizer tower



Deethanizer tower







Saudi Aramco

Saudi Arabia

Optimizing refinery economics through real-time operations digital transformation at the Yanbu refinery

Goals

- Optimize operations by closing the 'plan vs actual' performance gap for production and supply of transportation fuels for western Saudi Arabia
- Close the technology gap between the refinery planning/scheduling and APC systems
- Close the 'plan vs actual' performance gap caused by the technology gap, which can amount up to 10% of the crude margin

Challenges

 Misalignment between planning, scheduling and APC objectives; constraints and targets; and infrequent feedback from actual process conditions and process constraints unaccounted for in real-time

Results

- First refinery-wide real-time optimization (RTO) in the Middle East
- Deployed solution using AVEVA Process Optimization software on an AVEVA PI System infrastructure to provide real-time optimal operating targets for all key process parameters
- Project payback estimated between 3-6 months, with early results showing quick progress:
 6% gap reduction in crude margin, high user acceptance and reduced operator interventions
- Plans to feed RTO results into the PI System, and develop KPI/benchmarking displays



Industry: Oil and Gas

Solution:

AVEVA™ Process Optimization

AVEVA™ PI System

"We chose to deploy a refinery-wide optimization solution using AVEVA Process Optimization, with an infrastructure built around the PI System. What the system does is that it continuously maximizes the most valuable products as the pricing changes, as the environment changes, and as the crude quality changes, so that we're always running at our optimal performance"

Douglas Raven, Engineering Specialist, Saudi Aramco



Life Is On Schneider