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PIWorld

GOTHENBURG • SEPT. 16 - 19, 2019

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PARTNER & PRODUCT EXPO

TUESDAY: Expo Hours & Reception

12:20 – 19:00

Wednesday: Expo Hours 8:30-17:30



Digitizing Assets in the Supply Chain

Raw Materials

Transport Mode



Middle Tier Processing

Equipment Manufacturer



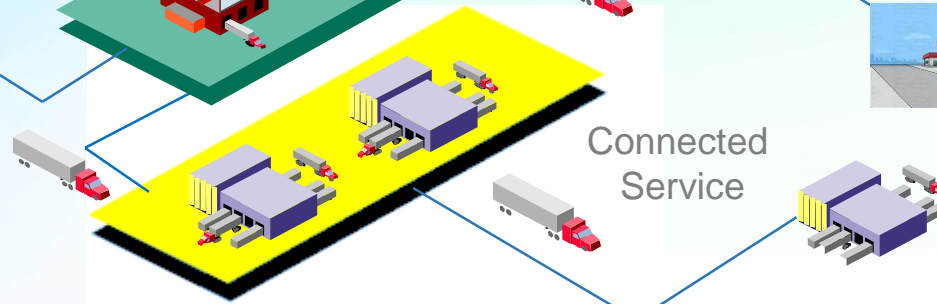
End Customer



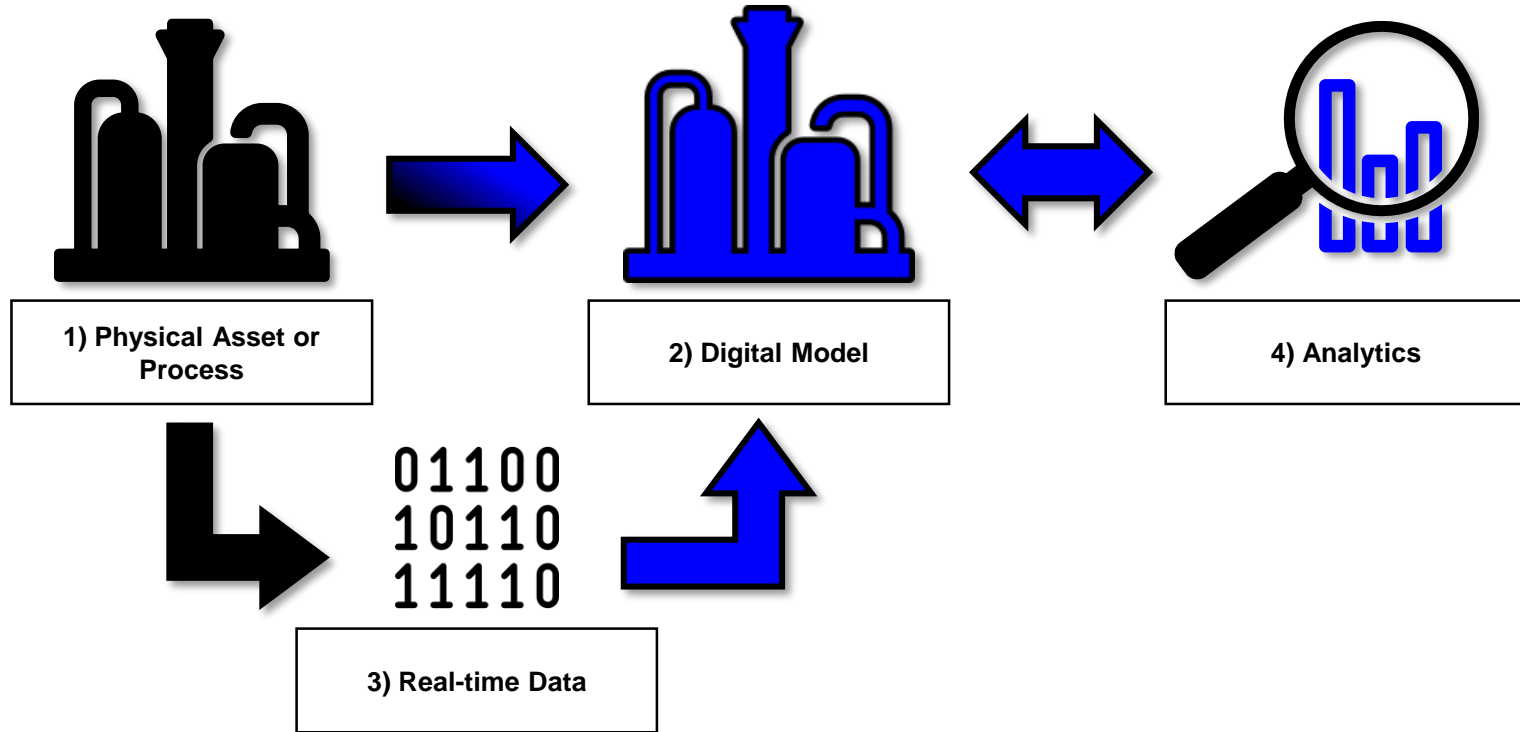
Connected Service



Dealer/Distribution/Service

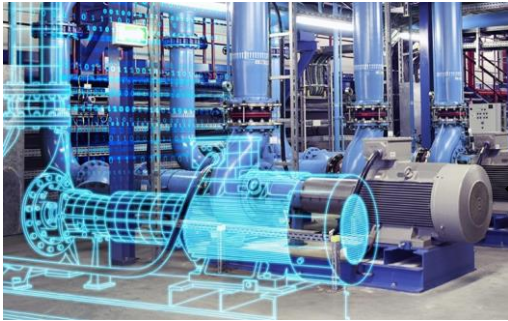


Digital Twin: Constituent Parts

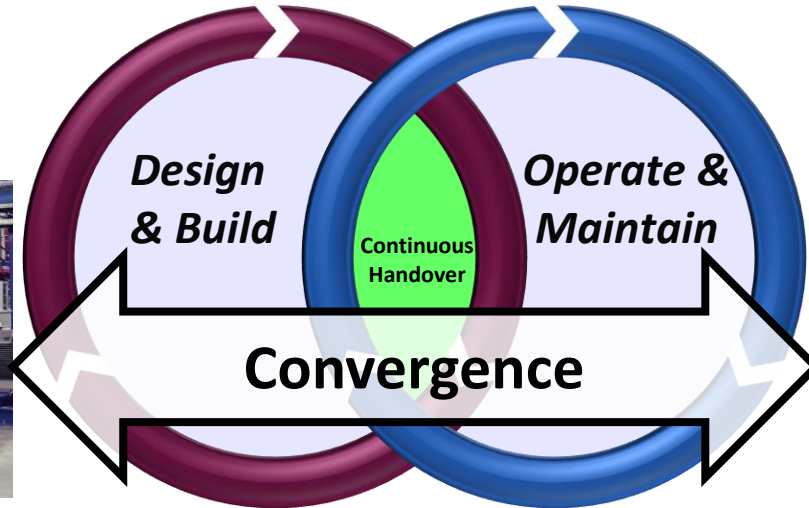


Digital Twins Throughout Asset Lifecycle

Modeling & Simulation
Construction Sequence
Virtual Commissioning



- As-Designed
- As-Built
- As-Maintained



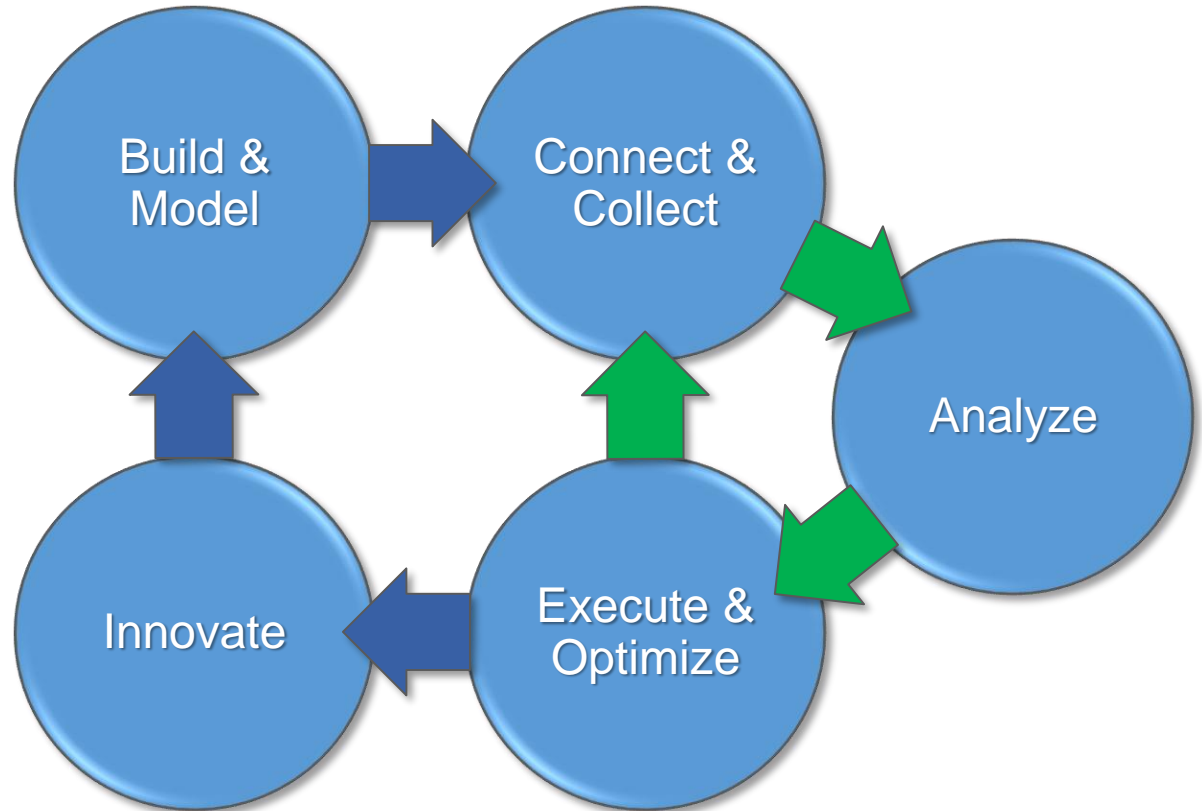
Predictive Maintenance
Process Optimization
Energy Management



- Real-time IoT data
- Analytics
- Alerts

Enabling an Information Value Cycle

- Improved operational and asset performance
- Improved engineering and maintenance efficiency
- Increased quality time for engineering and less time spent on data and IT tasks
- Reduced downtime, less equipment damage, and most likely a reduction in information-related incidents and accidents
- Reduced operational and IT risks



Using the PI System to manage energy for a more sustainable future at Toyota Motor Europe (TME)

CUSTOMER STORY

CHALLENGES

- No sufficient energy data flow from manufacturing plants
- No standard for energy monitoring in manufacturing plants

SOLUTION

- Implementing a centralized European framework
- Develop a plant size monitoring structure and roll-out in every plant

BENEFITS

- Hard benefits : Tangible energy reduction in pilot plant
- Soft benefits : Empowering our engineers to take more efficient actions

“ We managed to combine business application with significant step toward our corporate vision. Let's continue to improve and transform our industry. ”

Chris TORFS, Senior Mng. Plant & Environment div.

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Kevin ROSATI
Facility engineer
Toyota Motor Europe

How Sandvik Coromant uses PI in production

Global OEE system at Sandvik Coromant

COMPANY and GOAL

Supporting tool for production units showing how expensive CNC machines are used and what losses we have in each area.

CHALLENGE

Collect and consolidate data from multiple systems, machines and sites and display result that gives operators and change leaders a visual view over how each machine is used in real time or in the past.

SOLUTION

Combining flexible interchangeable components that we can grow and move as the organization changes. Traceability on machines and data is also vital.

RESULTS

- Clear data that change leaders can act on.
- We expect to gain a minimum of 1% per machine and year in improved OEE on all machines.
 - Future possibilities with PI that was not fully known as the project started.



Conny Söderlund
IT Process Manager
Sandvik Coromant

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Data Quality Improvement – DNV GL

Data quality improvement

CHALLENGES

- Poor data quality negatively impacts business
- Efforts to achieve structured data quality improvement become either too ad-hoc or too generic

SOLUTION

- Relate data quality issues to familiar concepts and categories
- Target improvement efforts in dedicated areas

BENEFITS

- Increased value from data
- Alignment with digital class requirements

“ Investing in data quality is a prerequisite for successful data science. ”
Per Myrseth, Manager of Data management and analytics, DNV GL

DNV GL ©
18 September 2019
DNV GL 41



Simen Sandelien
Data quality specialist
DNV GL

Predictive Maintenance for the heat treatment industry with PI in its center – IVA Schmetz



IVA Schmetz Digital Service Story

CHALLENGES

- Maintenance and repair cost
- Downtime cost
- Manufacturing performance

SOLUTION

- Remote Condition Monitoring
- Predictive Maintenance to prevent issues
- Simple visualization of KPIs

BENEFITS

- Increased availability
- Transparency & plannability
- Cost cutting

“I am convinced that it will be a game changer for the entire industry. [...] with Digital Service we have now achieved a breakthrough. The difference here is clearly made by artificial intelligence” – Peter Lankes, CEO at IVA Schmetz

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Dennis Miller
Head of Digital Service & IT
IVA - Schmetz



Stefan Bache
Senior Software Engineer
IVA - Schmetz

Panel - Digital Twins: Fact, Fiction and The Future



Cevat Elik



Ian Hughes



Enrique Herrera



Mike Kanellos





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Day 3 TRACKS



- Best Practices
- Marketplace Partner Showcase
- Tech Talks



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FUSION

Wednesday

18:30 – 22:30

.....
Follow the human arrows across
the street, starting at 18:20
.....



Questions?

Please wait for
the **microphone**

State your
name & company



Please remember to...

Complete the Survey!

Navigate to this session in
the mobile app for survey

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San Francisco • March 23-27, 2020





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