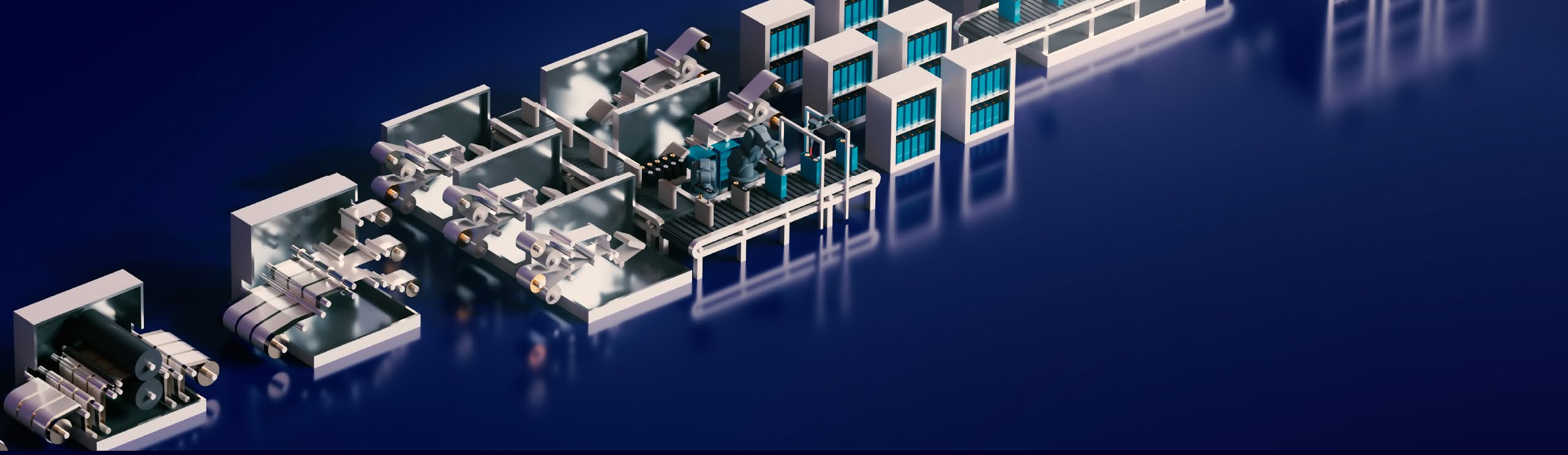

Member Update Presentation:

Siemens

2025 NAATBatt International Annual Meeting

February 17 – 20 I Orlando, FL

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SIEMENS

Businesses and Services of Siemens AG

Industrial Businesses

Digital Industries

Smart Infrastructure

Mobility

Siemens Healthineers[1]

1 Publicly listed subsidiary of Siemens; Siemens' share in Siemens Healthineers: 75%

312,000 Employees

€75.9 bn Revenue

€84.1 bn Orders

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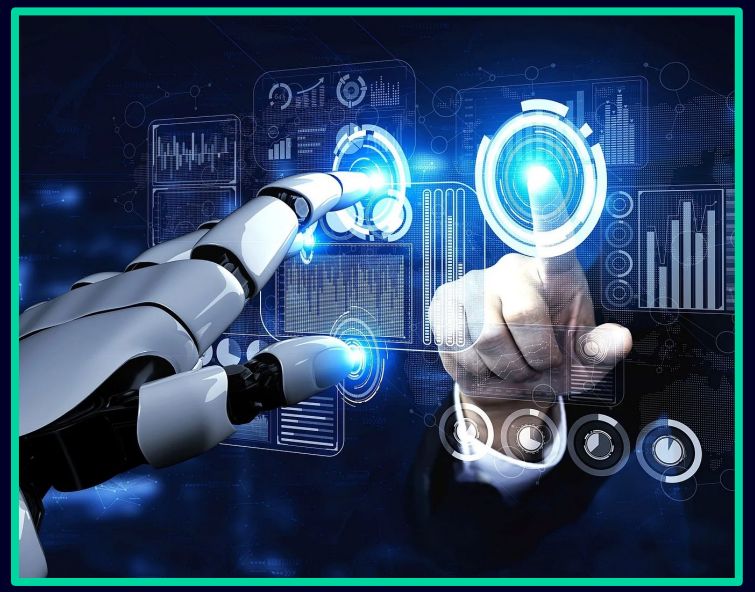
Siemens - ONE Tech Company

Digital Industries provides cutting-edge technologies for the automation and digitalization of the discrete and process industries.

ONE Tech Company – Siemens' vision that aligning all business units under a unified goal, fostering collaboration, and leveraging software technologies to maximize the value to our customers.



Targeted Investments in emerging technologies such as cloud/edge computing, AI, and 5G. Recent acquisitions include **Altair Engineering**, **Mendix** (low-code platform), and **Supplyframe** (marketplace intelligence)

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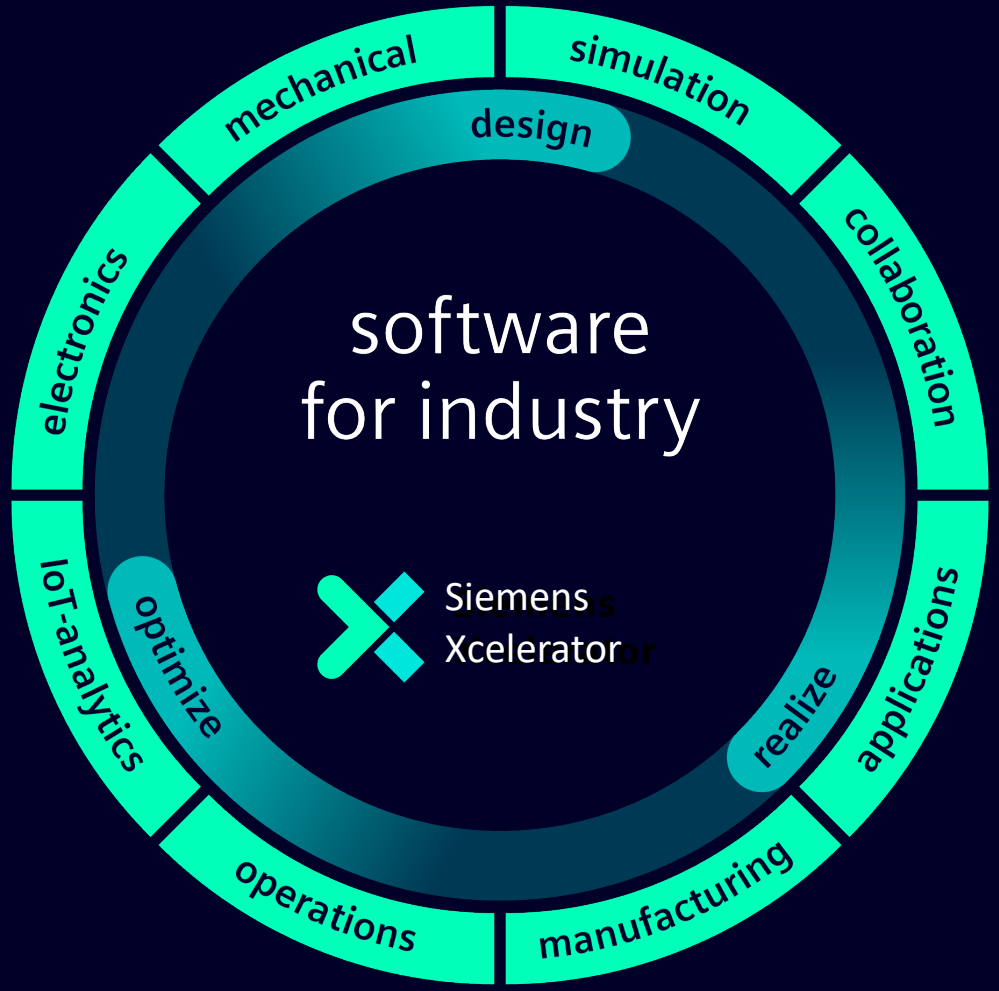
Siemens Xcelerator Portfolio for Battery Industry

Comprehensive digital twin

Personalized Adaptable / Modern

Flexible / Open ecosystem



Xcelerator as a Service -

powered by AWS, empowers your organization to create without limits.

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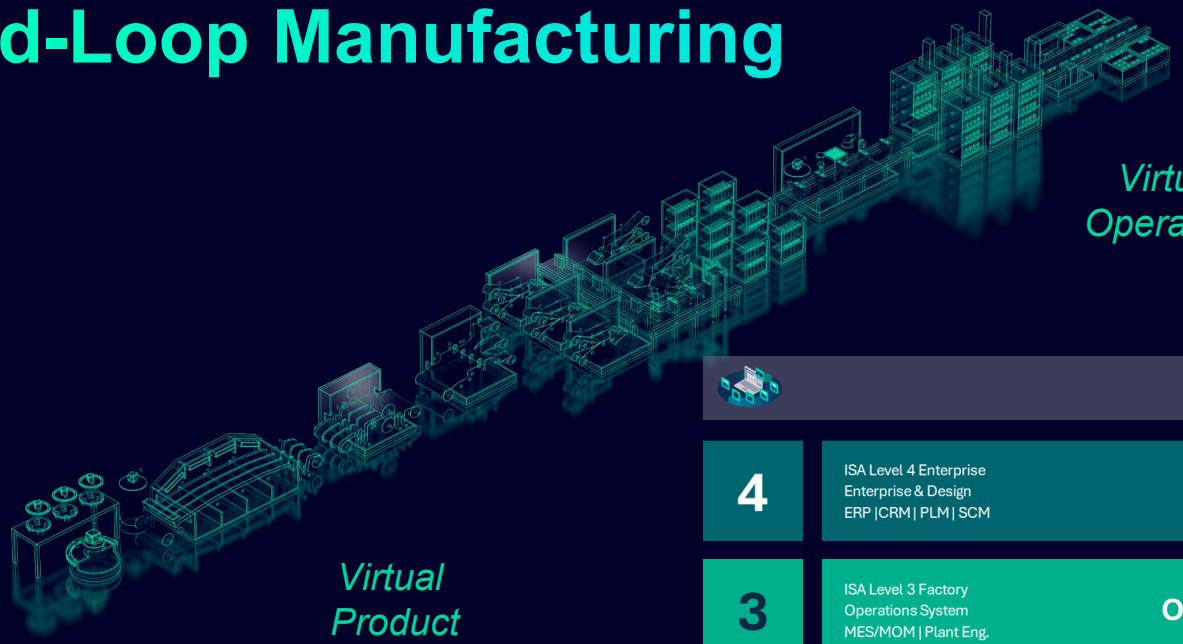
Closed-Loop Manufacturing

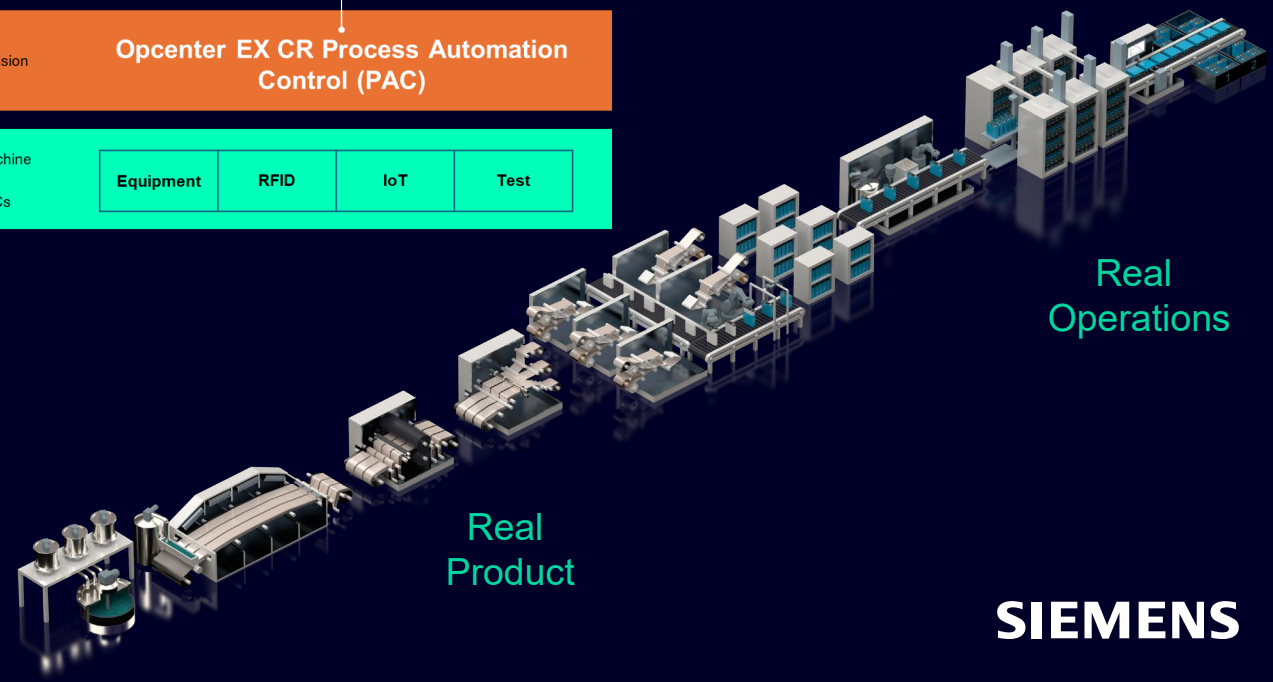


Virtual Operations

Virtual Product

DATA

	Mendix	
4	ISA Level 4 Enterprise Enterprise & Design ERP |CRM | PLM | SCM	**ERP & PLM**
3	ISA Level 3 Factory Operations System MES/MOM | Plant Eng.	**Opcenter Execution**
2	ISA Level 2 Line Control & Supervision Line PLCs | DCS	**Opcenter EX CR Process Automation Control (PAC)**
1	ISA Level 1/0 Machine Field IIoT sensors | PLCs	**Equipment** | **RFID** | **IoT** | **Test**



Real Operations

SENSORS

Real Product

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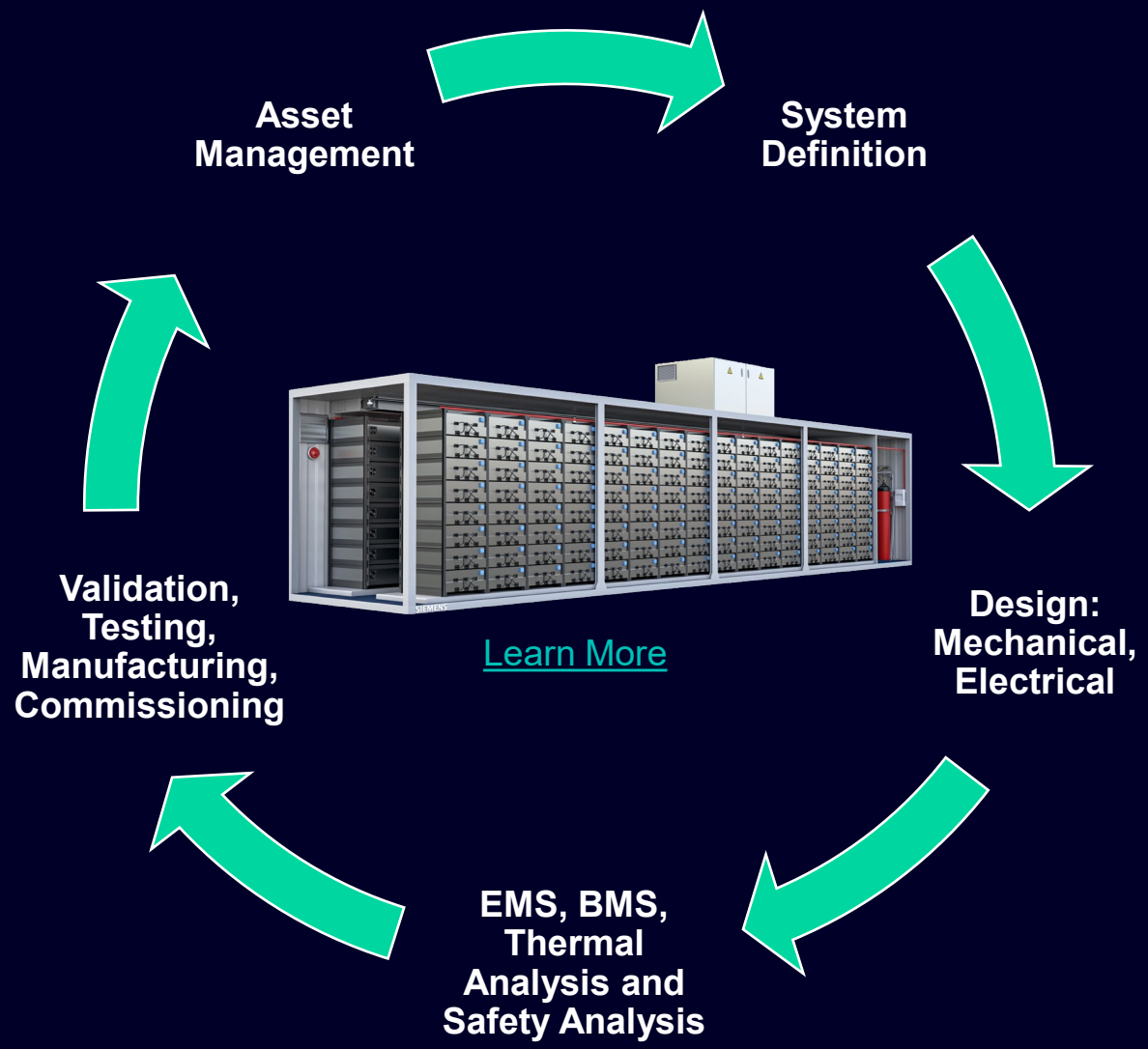
System Level Design, Manufacturing and Management of BESS



- BESS design, sizing (number of containers, cells) and validation with components available from predefined libraries
- Batteries with SoC (state of charge), temperatures, SoH (state of health), aging
- Safety assessments : battery thermal runaway
- Controls to balance the loads and consumptions, EMS and BMS
- Optimization of the HVAC / air-conditioning system performance for the containers
- Connection to the grid/micro-grid, power converters, inverters
- Trading strategies and Balancing Mechanisms (energy mix and energy price)
- Compliance with regulations, certifications

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Siemens for Startups

Startup Program helps to avoid growing pains with access to discounted, scalable software and hardware solutions.

Siemens Startup Program is linked with AWS's Startup Program helping innovators to bring their ideas to life quicker by leveraging advanced software, AI, and cloud services.

23%

Less physical prototypes

by using virtual prototyping to decrease the number of physical prototypes by 23% YoY.

30%

Increased Equipment Efficiency

through optimization of processes and operations before physical implementation resulting in reduced downtime, waste, and number of trial-and-error iterations.

36%

Increase in profitability

through enhanced customer retention, productivity and reduced costs of defects and total cost per unit.

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Thank you!

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