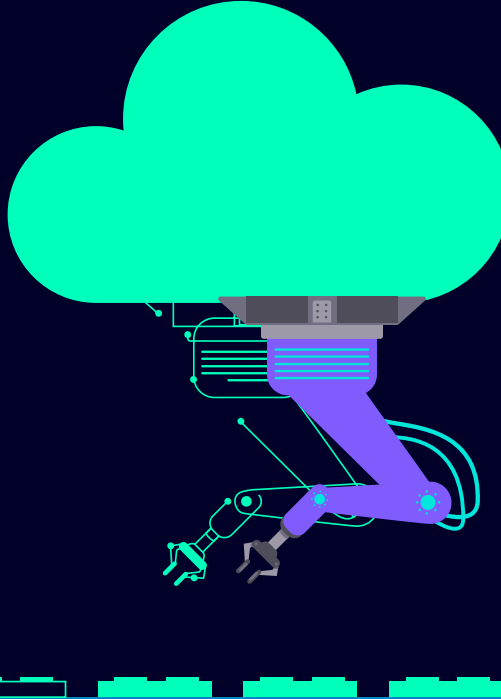


Energize your machinery

with the power of cloud-based product lifecycle management (PLM) software

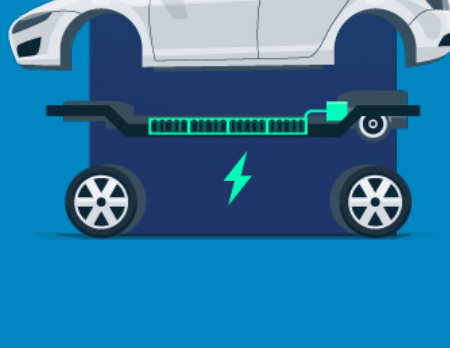


Global Trends

The global **demand for batteries** is expected to **increase from 185 GWh in 2020 to over 2,000 GWh by 2030.**

This large increase is mainly due to the electrification of mobility/transportation.

+2,000 GWh



The global demand for key **battery minerals** is expected to **increase by 2028**

Demand for graphite is projected to amount to approximately **2 million metric tons.**

Demand for lithium is forecasted to be about **1.9 million metric tons.**

Supply chains will need to adapt to these changes

Source: Statista

Challenges

Disruptive influences

Many regions are offering incentives for local battery development, leading to rapid industry growth. In particular, regions like the U.S. and Europe are increasing their local battery production.

Smarter factories and machines

Rapid industry growth has led to high-output production sites known as Gigafactories. Gigafactories require specialized plug-and-produce machines that are more connected and automated than ever before.

Business model changes

The demand for specialized machinery outweighs the supply. Gigafactories need turn-key solutions to satiate the demand. Machine builders who pivot to fulfilling the demand can utilize remote service offerings to contend with more advanced manufacturers in the battery space.

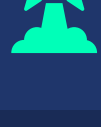
Source: McKinsey & Company

PLM Solutions

Product lifecycle management (PLM) software offers battery machine builders real-time visibility into project progress while breaking down silos and synchronizing systems.

Why PLM?

Product lifecycle management (PLM) helps you to manage your digital twin efficiently so you can bring innovative products to market, faster.



Deliver machines faster



Optimize workflows



Grow revenue opportunities

PLM enables cross-domain design management



Mechanical



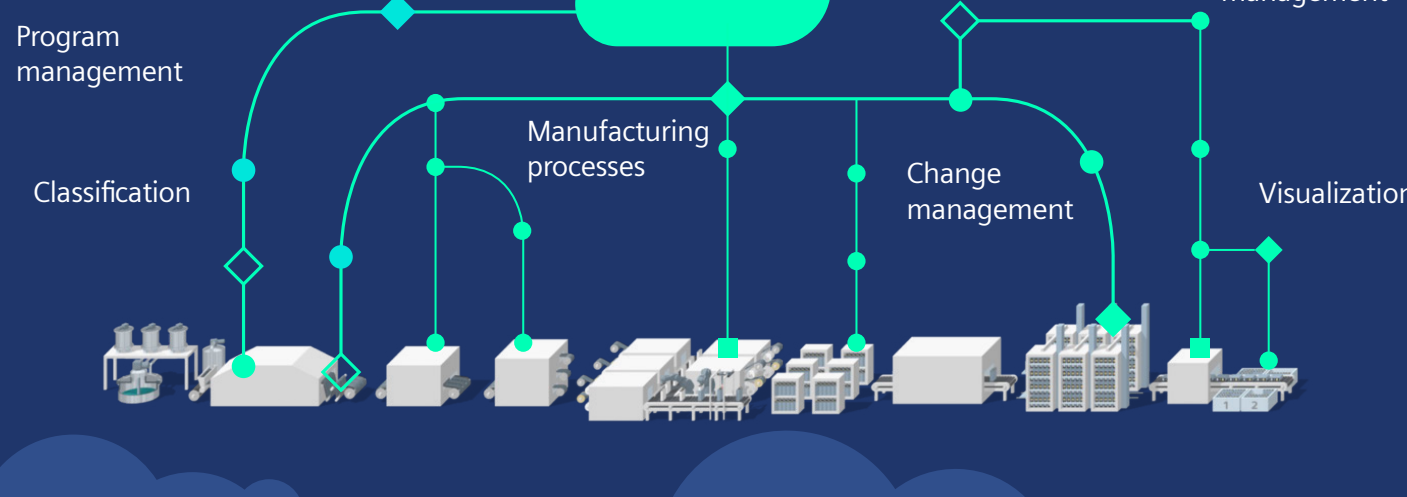
Electrical



Electronic



Software



Deliver class-leading innovative machines with the flexibility of SaaS PLM

- ✓ **Accessibility**
- ✓ **Flexibility**
- ✓ **Agility**
- ✓ **Resiliency**

Fast Implementation
Solutions are operational in days

Instant Access
Anytime, anywhere data access

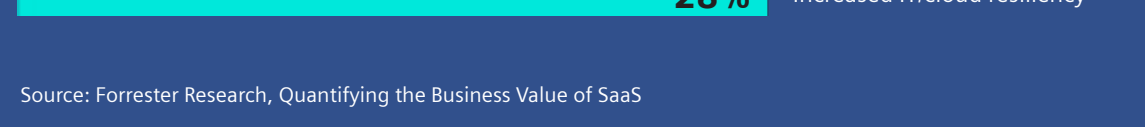
Flexible Provision
Scale up, scale down to meet your needs

Reduced Costs
Flexible business models & contracts; reduced capital costs

Advanced Security
Highest standards for privacy and data security

Work Efficiency
People and process optimization potential

Top two reasons businesses choose SaaS:



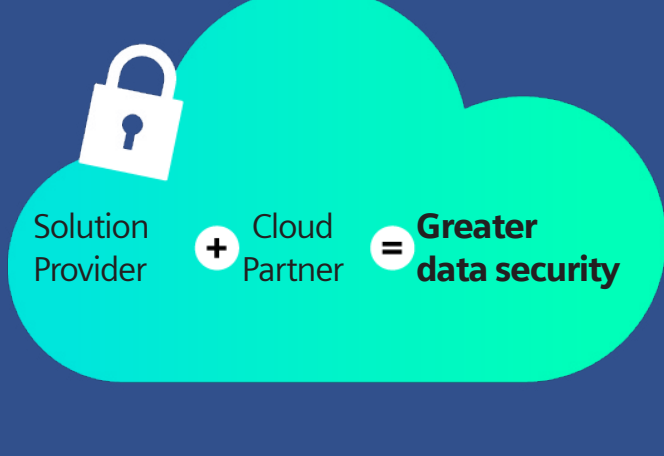
Source: Forrester Research, Quantifying the Business Value of SaaS

SaaS provides superior data security & protection



When a company uses a SaaS PLM solution, data security is the responsibility of the solution provider and its cloud partner...As a result, the likelihood of data theft and product development-crippling malware is much less than with on-premises PLM.

Source: Lifecycle Insights, The Business Case for Cloud-Based SaaS PLM



SaaS typically beats on-premises on overall business value



ROI [return on investment] shows that SaaS is a good bet for long-term value.

Forrester report, Quantifying The Business Value of SaaS

The solution

Teamcenter X is SaaS PLM on the cloud, operated by Siemens



1 Leader in Forrester Wave PLM for Discrete Manufacturers

1 Siemens has the strongest offerings in PLM software -Transforma Insights

Source: Transforma Insights, Industry 4.0 Digital Transformation Service Provider Peer Benchmarking 2021 Report
Source: The Forrester Wave™: Product Lifecycle Management For Discrete Manufacturers, Q1 2023

What's next?

Discover more about Teamcenter X

Free 30 day trial

