

TWINSPHERE

The AAS Platform
for Digital Twins

THE CHALLENGE

Efficiently optimise your entire value chain and start implementing the digital product passport

Mechanical engineering and component manufacturing companies face significant challenges – from fragile supply chains to exploding high costs. At the same time, they must offer digital services and integrate their processes organisation-wide. To meet these challenges, innovation is needed.

Meet twinsphere: a comprehensive suite of services for creating, managing, and optimising digital twins. Simplify your digital transformation, increase process efficiency, and ensure the security of digital assets. Find out how twinsphere helps you to be successful in the digital world and achieve your goals.



twinsphere – the solution for the digital transformation in Industry 4.0:

- Simple: Standardized and interoperable use through the use of the Asset Administration Shell (AAS) metamodel from IDTA
- Economical: Simple, affordable and adaptable platform
- Scalable: connect systems and assets beyond the boundaries of your company

OUR SOLUTION

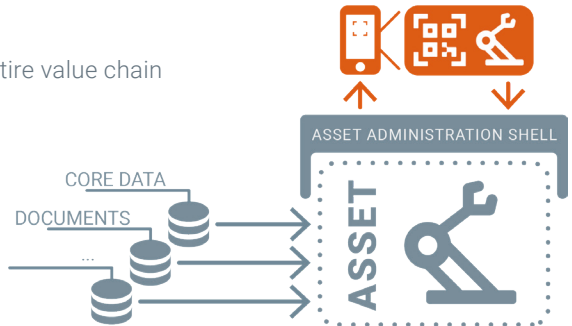
More value for SMEs with twinsphere

With the twinsphere suite, value-added services, processes, and value chains that are otherwise only available to large companies are now also accessible to small and medium-sized enterprises. With a focus on interoperability and an open structure for customised solutions, twinsphere meets your needs now and in the future, regardless of your business scenario.

Experience twinsphere: the simple, economical, and highly scalable solution for Digital Twins. Whether you want to provide standardised Digital Twins along your value chain or need a platform that can map individual processes and services based on the asset administration shell, twinsphere offers the perfect solution thanks to its flexibility, simplicity, cost-effectiveness, and high scalability.

These are the benefits for your business:

- Ease of use
- Predictable costs
- Interoperability along the entire value chain
- Economical into the future
- Flexible use cases
- Uncompromised scalability
- Tailor-made solutions
- Expand and scale globally



The four main use cases of twinsphere



Platform for deploying Asset Administration Shells in third party systems

twinsphere provides your company with a secure, robust, and scalable platform for delivering asset administration shells (AAS). The AAS platform can be used for interactive end-user access and serves as a basis for integration with third-party systems.



Document transfer according to VDI 2770

twinsphere supports the digital manufacturer information of the VDI 2770 standard and the requirements of the Digital Data Chain Consortium (DDCC), enabling companies to efficiently manage and distribute their documentation and data.



Information flow along the value chain

twinsphere also has tailor-made solutions for transferring information along the value chain, providing your customers with easy access to digital nameplates or up-to-date product documentation. The messaging service provides notifications of changes to the Digital Twin database.

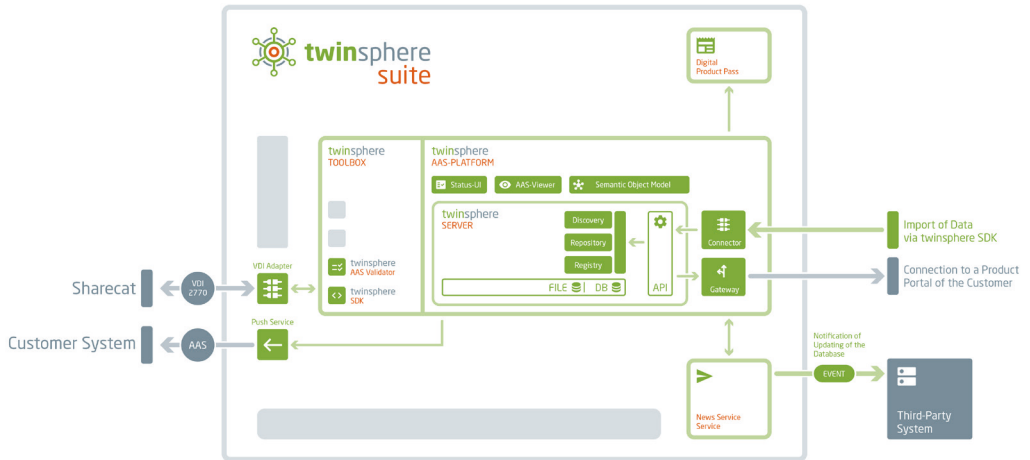


Digital Product Passport as a Service

The twinsphere Software-as-a-Service (SaaS) platform enables companies to efficiently implement Digital Twins based on the asset administration shell along the entire value chain. Based on this, you can implement use cases such as the Digital Product Passport (DPP) or Product Carbon Footprint (PCF) reporting and thus prepare for future regulatory requirements.

Open and flexible architecture

The AAS platform forms the core of the twinsphere suite. It provides Digital Twins based on the metamodel of the asset administration shell in its latest version V3. Other components such as a messaging service, a push service for asset administration shells and the VDI Adapter complement the core functionality.



Use the twinsphere suite's extensive integration capabilities to manage complex data structures and ensure that the right information is available at the right time.



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Unsere Partnerschaften:



Member of IDTA
Industrial Digital Twin Association

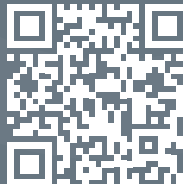


„With the platform, we can provide our customers with all relevant data and the CO2 footprint of our products completely digitally in their systems. This creates paperless processes and the basis for digital services.“

Markus Weishaar

Director IIoT & Service

Dunkermotoren GmbH



www.complement.de/en/twinsphere