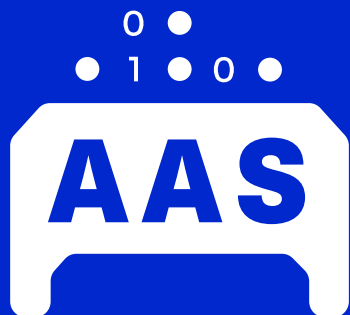
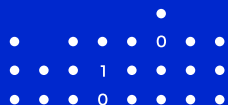


# The Asset Administration Shell (AAS) in action



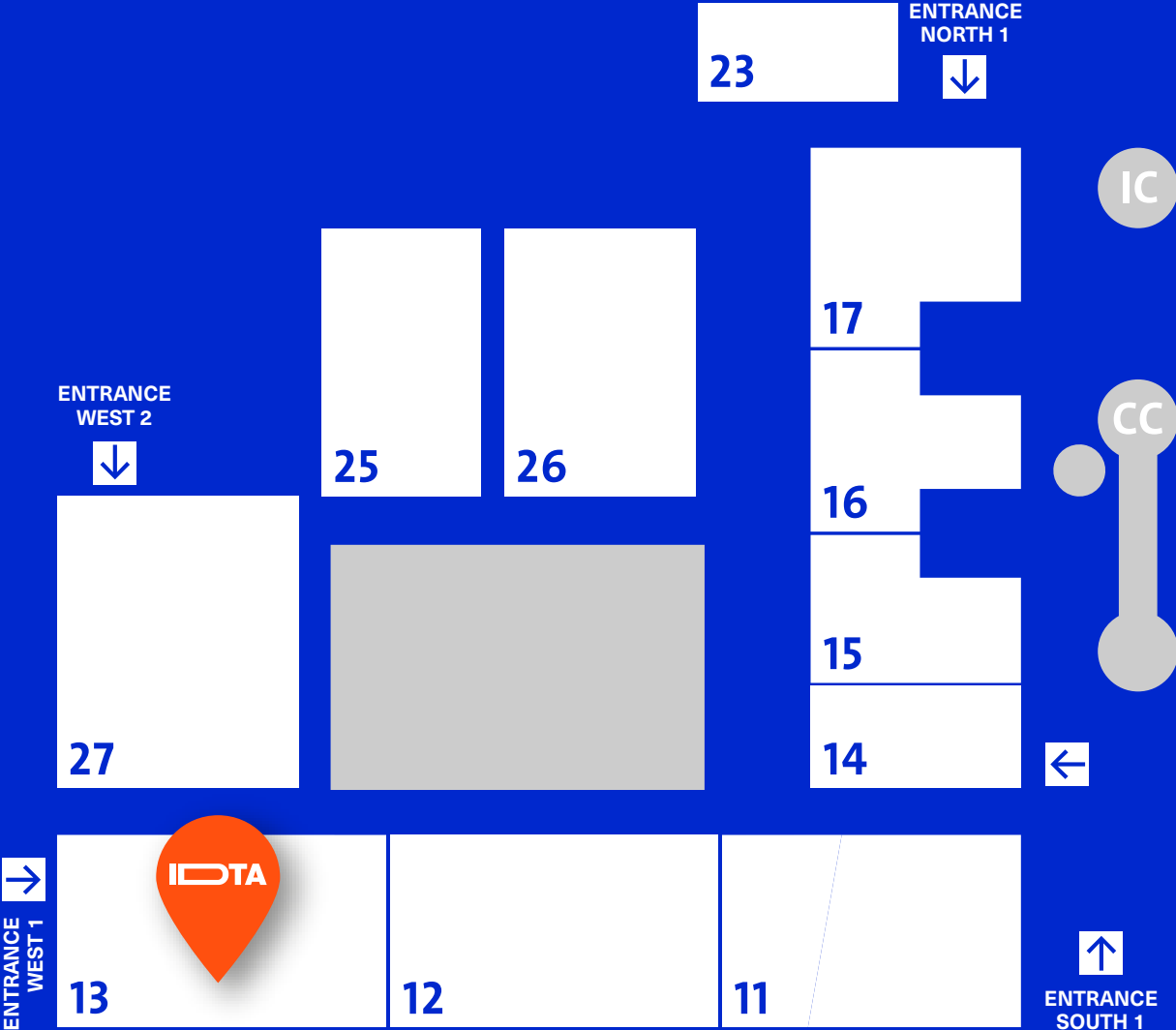
## AAS Guide Hannover Messe 2026

**IDTA**



IDTA | Lyoner Straße 18 | 60528 Frankfurt a. M. | Germany  
Phone: +49 69 6603 1939 | E-mail: [info@idtwin.org](mailto:info@idtwin.org)  
[www.idtwin.org](http://www.idtwin.org)

# Floorplan Hannover Messe 2026



# Digital Product Passport (DPP4.0) based on AAS



## AAS-Based DPP & Capability for a Federated MaaS Ecosystem

This exhibition demonstrates the practical application of AAS-based manufacturing data standards in a Manufacturing-as-a-Service (MaaS) ecosystem. By standardizing Digital Product Passport (DPP) and manufacturing capability data, it illustrates how companies can enhance transparency, interoperability, and global supply chain participation.

Hall 14 | J40



xxx



jejung@keti.re.kr | reinhard.herzog@iosb.fraunhofer.de



## HEITEC Digital Product Passport

The solution presented by HEITEC is the Digital Product Passport in the AAS for sustainable, traceable data, driven e.g. by EU regulations for batteries with a capacity 2+ kWh effective 2027. The Battery Pass ensures access to all relevant product data, such as manufacturer information, sustainability metrics, or usage history and is facilitated by not more than QR-code scanning – easy to use, proven technology.

Hall 15 | D36



heitec.de



michael.roegner@heitec.de



Hall 27 | J50

## Digital Product Passport for Connectors

Digital Product Passports featuring Product Carbon Footprints, implemented with AAS for connector components and assemblies



harting.com



sebastian.eicke@harting.com



Hall 27 | J70

## CIRPASS-2 – Electronics Pilot using DPP4.0

In this pilot, DDCC and ZVEI collaborate with various industry partners to demonstrate how DPP4.0 is used to manage product information in a fluid system, while meeting the European Digital Product Passport (DPP) requirements. As part of the CIRPASS-2 project, we also emphasize how DPP4.0 provides companies with an independent and interoperable solution to make product data accessible both upstream and downstream, fostering transparency and circularity.



zvei.org



stefan.schork@zvei.org



Hall 12 | F56

22.04.2026 | 11:40 - 12:00

## Produktzwillinge für Daten über den Lebenszyklus für Produktpässe und andere Regularien

Josepha Anna Pfeiffer, Robert Bosch Solution Lab (F56) | Expert Stage

## Start with the AAS



### Home of the AAS

Get ready for the industrial implementation of the AAS. Get all the information and updates on the AAS information model, use cases, submodels and all developments from this onestop shop for the AAS.

### AAS Training Programme

Take the fast track to become an expert of the AAS with the AAS Training Programme for beginners, advanced or experts.

Hall 13 | C24



idtwin.org



info@idtwin.org

# Tools & Infrastructure for AAS



## ADX Hub

The hub enables fast, automated access to constantly updated information and ensures faster processes, higher data quality and reduced data management effort.

Hall 13 | C24

[idtw.in.org](http://idtw.in.org)

[info@idtw.in.org](mailto:info@idtw.in.org)



## XITASO, Fraunhofer IESE and NetApp are presenting: Industrial BaSyx

XITASO, Fraunhofer IESE and NetApp are jointly developing a solution to advance digitalization in the machinery sector. The Industrial BaSyx Solution enables enterprise-wide use of Eclipse BaSyx with straightforward implementation, secure operation and flexible scalability. The goal is faster time to productivity, sovereign data management, and a technical foundation for the Digital Product Passport and AI. Interoperable, secure and scalable.

Hall 13 | C35

[xitaso.com](http://xitaso.com)

[alwin.hoffmann@xitaso.com](mailto:alwin.hoffmann@xitaso.com)



## AI Support for Interoperable Data Exchange – From AAS Creation to MX Port

This demonstrator shows an end to end deployment of interoperable data exchange for a robot asset and corresponding products. From creation of AAS and Submodels with FA<sup>3</sup>ST CreAltor, over asset connection for dynamic data to sovereign data exchange via MX Port Leo and MX Port Hercules, the exhibit shows that the technology is ready for use cases ranging from the digital product passport to manufacturing as a service.

Hall 14 | J40

[ljljana.stojanovic@iosb.fraunhofer.de](mailto:ljljana.stojanovic@iosb.fraunhofer.de)



## AAS.TwinEngine

AAS.TwinEngine is an open-source framework with a plugin architecture that enables data access to the customer's data layer. This allows customers to implement AAS cost-effectively in their system architecture.

In addition to a range of generic plugins, any bespoke plugin can be developed based on customer's need.

This approach perfectly supports modern data-driven architectures and allows users to develop advanced and new digital services across different data sources in the company.

Hall 15 | D36

[mm-software.com](http://mm-software.com)

[jah@mm-software.com](mailto:jah@mm-software.com) | Jens Achenbach



## Industrial data ecosystems with SAP BNAC

Be more efficient by collaborating effortlessly with digital twins – create value by collaborating with digital twins based on AAS while getting ready for EU Digital Product Passport (DPP). Experience how SAP Business Network Asset Collaboration (BNAC) realizes a seamless integration of asset data from suppliers and OEMs, enabling digital twins for efficient and standardized data exchange and integration to business processes by utilizing the AAS.

Hall 15 | F08

[sap.com](http://sap.com)

[thiago.weber.martins@sap.com](mailto:thiago.weber.martins@sap.com)

## DATA CIDERS

### AAS-based E2E Data Flow from Tier-2 Supplier to Dataspaces

Datacidars' Green PLM Solution Architects showcase the full pipeline from Tier-2 to dataspace: managing supplier data in CONTACT PLM, calculating PCF, extracting standardized information via AAS, and enabling interoperable dataspace exchange.

Hall 17 | H24

[datacidars.com](http://datacidars.com)

[charlene.zander@datacidars.com](mailto:charlene.zander@datacidars.com)



## Product Lifecycle Management

In the contemporary industrial context, the unstructured and dispersed nature of digital twin data can present significant challenges for engineers, who must dedicate a substantial amount of manual effort to identifying, structuring, converting, and completing data for both engineering purposes and regulatory compliance. Teamcenter Supplier Connect for AAS offers a solution that empowers customers to enhance engineering efficiency by leveraging AAS search, import, export and update capabilities.

Hall 27 | A48

[constantin.liepert@siemens.com](mailto:constantin.liepert@siemens.com)



## Neoception | The Operating System for Your Digital Twin Ecosystem

Neoception, a spin-off of the Pepperl+Fuchs Group, delivers an AAS-based enterprise platform that automates the creation, update and provisioning of digital twins directly from existing data sources. By integrating rather than replacing legacy IT, we reduce marginal costs, relieve IT resources and enable digital transformation to scale beyond isolated use cases. Learn from real customer projects how to turn interoperability into measurable business value and sustainable transformation.

Hall 27 | D38

[neoception.com](http://neoception.com)

[contact@neoception.com](mailto:contact@neoception.com)

# Engineering and Production with AAS

**smartFactory**<sup>sm</sup>

## AAS for Agentic Automation

In our model factory we fully integrated the AAS with the help of the open SmartFactory Architecture. It includes automated product AAS generation, description of module capabilities through AAS and matchmaking between product needs and machine skills. Agents use AAS data to manage value streams in the corporate data space based on BaSyx. Each product from our live-demo receives an automatically generated Digital Product Passport (DPP).

 Hall 13 | B10

 [smartfactory.de](https://smartfactory.de)

 [stephan.hamm@smartfactory.de](mailto:stephan.hamm@smartfactory.de)


**FESTO**

## Digital Twin in Engineering and Operation

Discover how Digital Twins transform automation industry by enhancing simplicity, efficiency and quality in your engineering and operation processes. Experience this innovation firsthand in our interactive demonstrator. Learn how Festo provides Digital Twins. Find out how AASs can be used seamlessly in the IT- and engineering system of our customers. Discuss your demands with our Digital Twin experts.

 Hall 13 | C17

 [festo.com](https://festo.com)

 [digital\\_twin@festo.com](mailto:digital_twin@festo.com)

**SAP**

23.04.2026 | 12:00 - 12:30

**How TÜV SÜD & Uhlmann bring asset management to a new level with SAP Business Network Asset Collaboration**

 Hall 15 | F08

**EY**

## Digital Twin as essential part of Physical AI Transformations

Showcasing the power of Digital Twins in the era of physical AI. Explore state of the art solutions and overall transformative approaches in digitalization.

 Hall 16 | B10

 **ptc**<sup>®</sup>

## PTC's AI Powered Digital Thread Solutions

Collaborative Engineering enables seamless cooperation between component suppliers, product designers, and machine builders, driving faster time-to-market, improved quality, and fewer errors. The demo showcases how CAD, PLM, and design tools leverage the AAS for efficient data exchange. PCN handling and component import from AAS are key highlights, demonstrating the power of digital collaboration.

 Hall 17 | F36

 [ptc.com](https://ptc.com)



## Product Change Notification

Eplan demonstrates how the AAS is used to integrate data of component manufacturers to engineering projects and collaboration between software tools. Component manufacturers provide type and instance data in the form of AAS in the Cloud. "Product Change Notifications" (PCN) for end-of-life announcements, expired certifications, firmware updates, or other relevant changes are assigned to specific projects, machines, or systems directly via the documentation in EPLAN.

 Hall 27 | D50

 [eplan.com](https://eplan.com)

 [geyrhalter.j@eplan.de](mailto:geyrhalter.j@eplan.de)

**SIEMENS**

## Efficient Plant Engineering with AAS and COMOS

We demonstrate how product data information from various suppliers, based on AAS, can be loaded into the COMOS CAE application for use in engineering projects.

 Hall 27 | 259



22.04.2026 | 14:20 - 14:40

## Digital Twins Come Alive – Real, User-Centric Systems in Action

Gabor Buday, Siemens | Patrick Bornstein SICK Solution Lab (E43) | Expert Stage 2

 Hall 26 | E43

# Dataspaces and Ecosystems with AAS



## AAS Dataspace Professional

The exhibit shows how dataspace-based use cases can be implemented in line with Manufacturing-X. Using interactive, hands-on examples, it illustrates how AAS technologies enable simple, standards-based data exchange across organizational boundaries and how existing systems like ERP can be integrated. Visitors can see how this approach supports the creation of new business models and revenue streams, making the benefits of interoperable and sovereign data sharing tangible and easy to understand.

Hall 11 | D33

[iese.fraunhofer.de](mailto:iese.fraunhofer.de)

[frank.schnicke@iese.fraunhofer.de](mailto:frank.schnicke@iese.fraunhofer.de)



## PMD-X: Connecting Platform MaterialDigital to industrial dataspaces

PMD-X comprises three sub-projects that showcase the technical breakthrough from the MaterialDigital platform to the industrial data spaces from various angles. The EDCar project focuses on the automotive sector, while AeroMatPass-X operates in the aviation sector, both providing links to Manufacturing-X (via Catena-X and AeroSpace-X). Meanwhile, PMD-X-MAPRO addresses supply chains and digital twins, enabling connections via MX-LEO and MX-Herkules.

Hall 13 | C24

[material-digital.de](mailto:material-digital.de)

[chris.eberl@iwm.fraunhofer.de](mailto:chris.eberl@iwm.fraunhofer.de)



## Digital Twin Registry – AAS Lifecycle Management at Scale

The Digital Twin Registry provides centralized management of AASs across the full product lifecycle – from registration and discovery to deregistration.

It supports both the IDTA AAS standard and the Bosch Digital Twin API, with performance templating for mass registration without requiring explicit definition for every twin. Bosch offers ready-to-use solutions built on the registry, including Battery Passport and Catena-X data exchange use cases.

Hall 14 | J17

[manufacturing-co-intelligence.com](http://manufacturing-co-intelligence.com)



## KI-sy Demonstrator

The KI-sy demonstrator shows how AI can be easily used to create AAS from the documentation of brownfield plants. Using data space connectors, the documentation is kept up to date and plant data is shared, whilst ensuring data sovereignty. Building on the AAS, a digital twin, including a 3D model, is created. Digital tools can now communicate with the plant in a standardised manner via the AAS.



Hall 27 | J70

[iff.fraunhofer.de](mailto:iff.fraunhofer.de)

[sven.schiffner@iff.fraunhofer.de](mailto:sven.schiffner@iff.fraunhofer.de) | [gesa.benndorf@iosb-ina.fraunhofer.de](mailto:gesa.benndorf@iosb-ina.fraunhofer.de)



23.04.2026 | 11:15 - 11:35

## Beyond Data Silos: Unlocking Next-Gen Industrial Value with Semantic Digital Twins

Birgit Boss, Robert Bosch

Hall 26 | E43

Solution Lab (E43) | Expert Stage 1

## AAS for Fluid 4.0



### System engineering via AAS for mini wheel loader

CFLab and the Fluidtronic Chair at TU Dresden are part of the Fluid 4.0 joint research project. Together, they developed and built the mini wheel loader to interactively demonstrate AAS-based system and control software development. The classic 'paper-based method' and the future 'AAS-based method' can be compared directly, and the results can be experienced immediately.



📍 Hall 13 | C24

🌐 [fluid40.de](http://fluid40.de)

✉ [benjamin.beck@cflab.de](mailto:benjamin.beck@cflab.de)



### R-Strategy Decision Support System

The Fraunhofer IIS as part of the Fluid 4.0 joint research project developed a digital demonstrator to show how circular economy decisions are taken. The tool shows how the most suitable R-Strategy is being selected on the basis of lifecycle and incident data. This data based approach uses information in the AAS from the product development and use phase to analyze the state of the specific component to determine whether for example repair or remanufacture is the better option in this case.

📍 Hall 13 | C24

🌐 [scs.fraunhofer.de](http://scs.fraunhofer.de)

✉ [scs-kontakt@iis.fraunhofer.de](mailto:scs-kontakt@iis.fraunhofer.de)



### Digital Product Passport

Bosch Rexroth demonstrates how Digital Product Passports (DPP) come to life in Fluid 4.0. By scanning QR codes on products, users instantly access DPP data and standardized AAS submodels – enabling transparent product information, lifecycle data, and seamless digital integration from engineering to service.

📍 Hall 13 | C24

🌐 [boschrexroth.com](http://boschrexroth.com)

✉ [digital.twin@boschrexroth.de](mailto:digital.twin@boschrexroth.de)



### Shopfloor Orchestration with a Deep Drawing Press

The exhibit demonstrates shopfloor orchestration using AAS as a standardized data foundation. Virtual and real Assets, such as the deep-drawing press is controlled via the AOP. The AAS enables integration of various IT systems including energy monitoring, MES/ERP systems, and condition monitoring. Energy data is collected and visualized in real-time dashboards. An AI agent utilizes the standardized AAS data structure and AOP context data to explain and generate machine and production processes.

📍 Hall 13 | C24

🌐 [boschrexroth.com](http://boschrexroth.com)

✉ [constantin.ziesche@boschrexroth.de](mailto:constantin.ziesche@boschrexroth.de)



### Fluid4.0: Fluid Power Dataspace

Fluidon and Emerson developed a demonstrator consisting of a sorting machine and its digital representation based on the AAS. The project was supported by :em AG and IQstruct Engineering in implementing AAS services and the required infrastructure. The demonstrator shows how machine data is structured and made accessible through the AAS, enabling its use for storage, processing, visualization, simulation, and interoperable, standardized communication between systems.



📍 Hall 13 | C24

🌐 [fluid40.de](http://fluid40.de)

✉ [heiko.baum@fluidon.com](mailto:heiko.baum@fluidon.com)