OPEN INDUSTRY 4.0 ALLIANCE

Partner Associations

Dr. Christian Mosch, IDTA
Michael Riester, Endress+Hauser
Dominik Rohrmus, LNI 4.0

Industrial Digital Twin Association

Industrial Digital Twin Association

Standardising the Industrial Digital Twin

Evolution of Industry 4.0

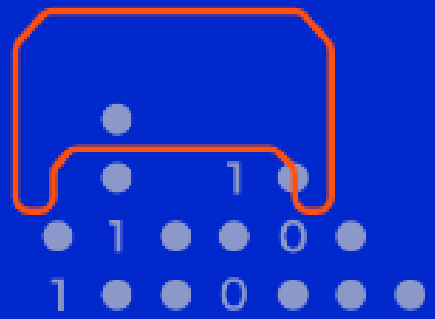
Industry 4.0

PLATTFORM INDUSTRIE4.0

2013

Start of Industry 4.0

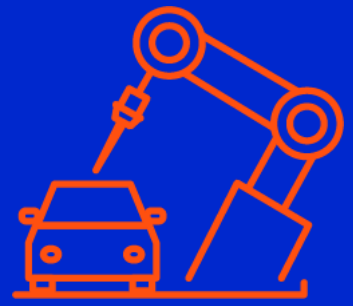
Asset Administration Shell



2015

Concepts and Specifications

Industrial Implementation



2019

Introduction of the Digital Nameplate

Technology Spin-off

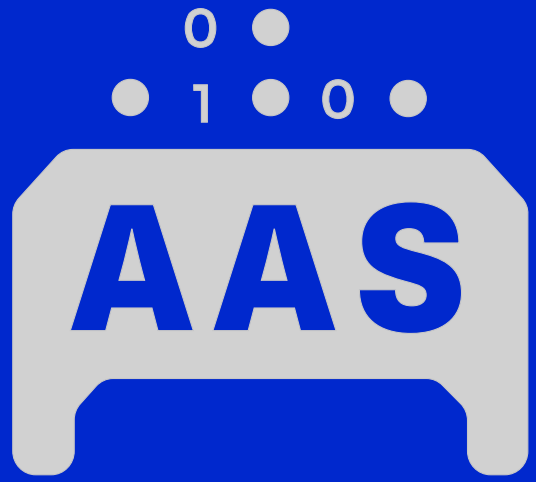
IDTA

Industrial Digital Twin Association

2020

Founding of IDTA with 23 Organisations

Asset Administration Shell



Worldwide Standard for the Industrial Digital Twin

MEMBERS: SUPPLIERS – USERS | OT – IT

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Many Double Members

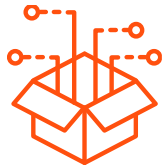
The IDTA Mission

Human

Building a global community

Around an international standard for the Industrial Digital Twin

Technology



Making everything open source

AAS available for all industrial companies

Open access to information models

Full IDTA submodel catalog on GitHub

Scaling

Collaboration through use cases

Bringing companies together, creating de-facto standards

Building knowledge through trainings

Why AAS? How to implement AAS?

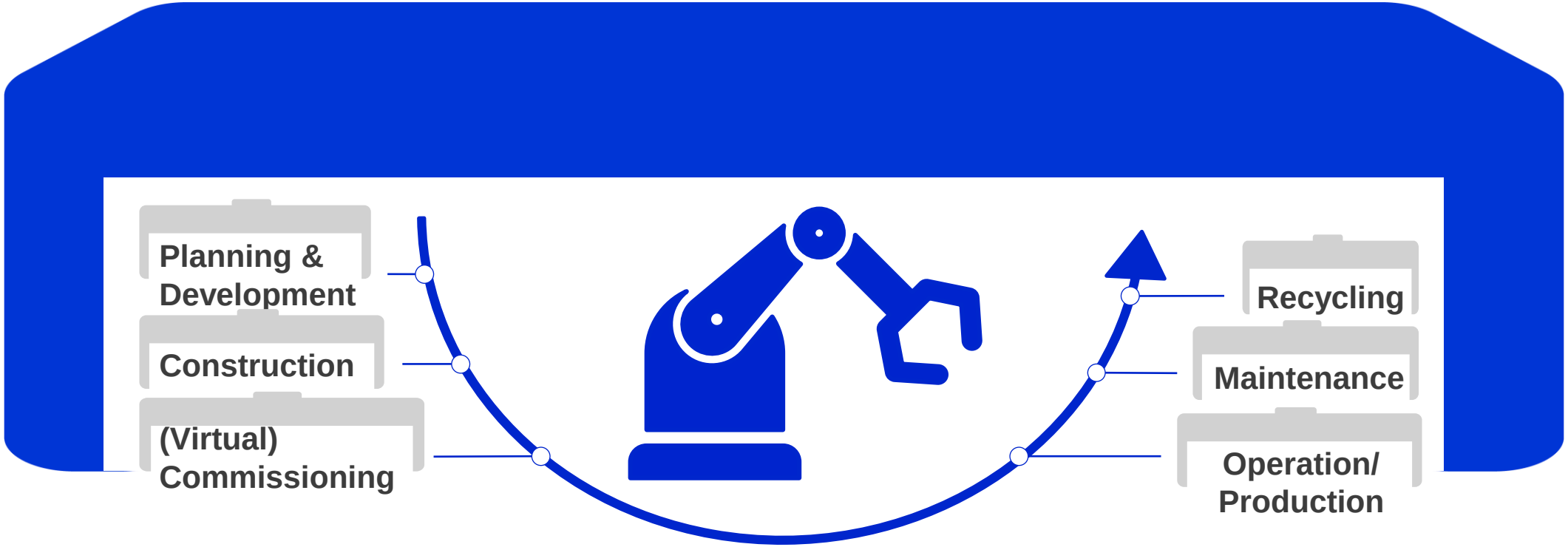
AAS: Digital Twin for the entire Asset Life Cycle

Digital Twins today

- Application driven
- Specific & Efficient
- Only one Life Cycle Element

Our goal

- Efficient scaling
- Standardization
- Entire life cycle



Standardised Information Models on GitHub

Standardised Submodels the Content of the AAS

Digital Nameplate	Contact Information	Handover Documentation	Module Type Package (MTP)	OPC UA Server Data Sheet
Software Nameplate	Engineering of Power Drives Trains	Product Carbon Footprint	Energy Monitoring	Time Series Data
Technical Data	Bill of Material (BOM)	Service Order Creation	Plant Asset Management	Simulation
Static/Life Cycle related			Active/Functions	

GitHub

IDTA as agile platform for Information Models

AAS as a solution for the Digital Product Passport

From Specification to Standards

IEC 63278

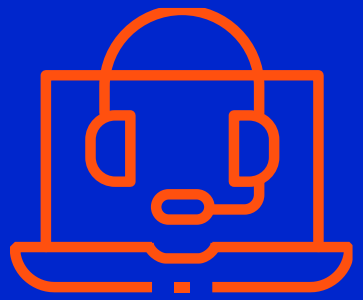
Asset Administration Shell
- Standardized Software Structure

IDTA Tech Days give deep AAS insights!


Location: IDTA, Frankfurt am Main

- 14. / 15. September 2023
- 110 participants
- Day 1: Overview about AAS and features, deep dive into implementation and security
- Day 2: Realised Use Cases with AAS-Submodels

Digital Open Hours on AAS



When:	**Every Monday from 16:00 – 17:00 CET**
Who:	Prof. Dr. Michael Hoffmeister and Sebastian Bader
Where:	Via MS Teams
Request access:	info@idtwin.org

Open for OI4-Members

Topics:

- Implementation of the Asset Administration Shell
- Deployment of Submodels
- User-specific customization
- Etc.

Joint Hackathon "Practical Application of the AAS”

Date: October 11-12th, 2023

Location: ZVEI, Lyoner Strasse 9, 60528 Frankfurt am Main

The time frame:

- Day 1: 10:30 CET - 17:00 CET
  Hackathon, 18:00 Get Together
- Day 2: 9:30 CET – 15:00 CET
  Hackathon

Registration

Industrial Digital Twin Association

Contact

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Thank you!