







HANNOVER MESSE 2022

Wir zeigen Ihnen an Beispielen was Ihnen Industrie 4.0 bringt

... und wie Sie Ihnen massiv den Pflegeaufwand Ihres Asset
Management Systems minimiert!!









athon



Automation





OPC UA Demonstrator

AUTOMATICA 2022 München How you can benefit from AAS ... by using it to integrate and combine your machine with an

Asset Management System



Hall B5. 318





- 1. Why AAS is a smart concept
- 2. Our aim
- 3. How we did it
- 4. What we achieved

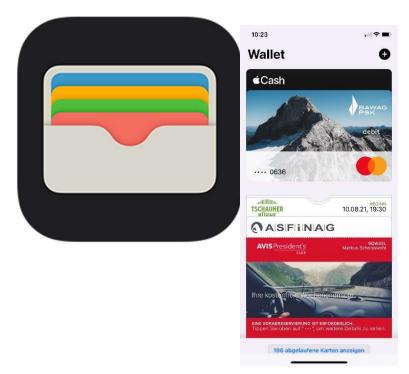


- 1. Why AAS is a smart concept
- 2. Our aim
- 3. How we did it
- 4. What we achieved

Introduction by the AAS You all know this Icon



You probably know this Icon and its benefits



Vaccination Certificate

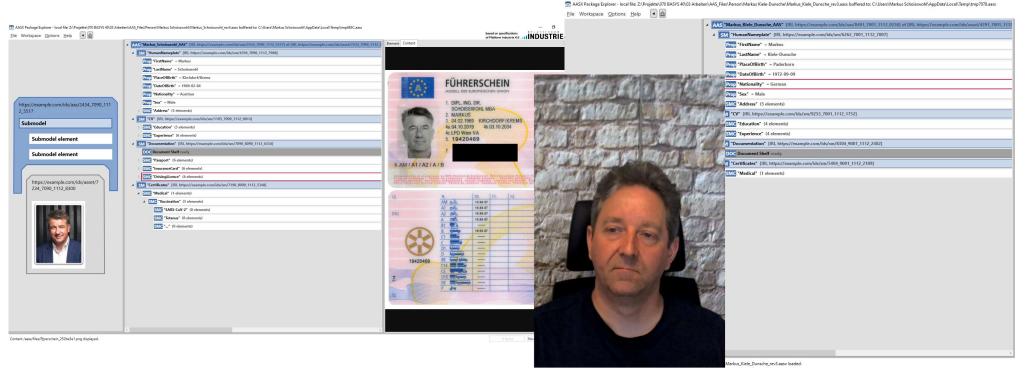
Eduction certificates

... what if it could do even more for you.....

Introduction by the AAS



... then it would be called humanized Asset Administration Shell AAS



, what work for humans, works especially well for Maschines



- 1. Why AAS is a smart concept
- 2. Our aim
- 3. How we did it
- 4. What we achieved

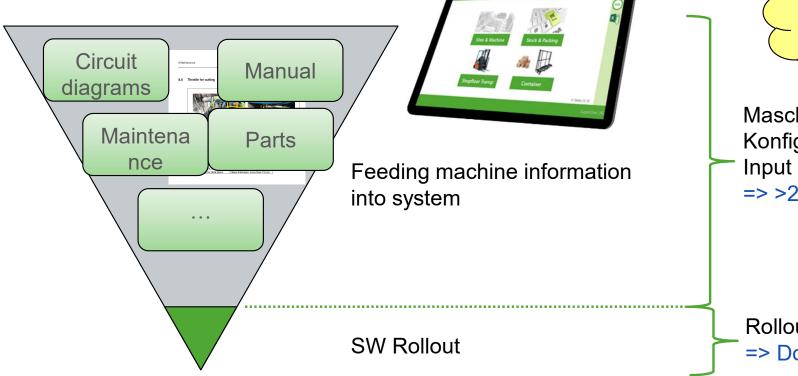
Motivation





What may be a good motivation of using AASX for feeding an Asset

Management System?



Wish I could automate that ... job ☺

Maschinen-Konfiguration and Data Input

=> >2 h ? / Machine

Rollout of Software => Download app

Overview & Definitions The task



Idea:

- How can a machine
 - A Sorting Picker with 2 Robot Arms from Lenze
 - A Spinner-Assembler from VDMA



- Hegla's Shopfloor Assistant
- automatically using Asset Admin Shell:
 - Using AAS structure and Information to automatically setup configuration,
 - Allow integration of data transfer



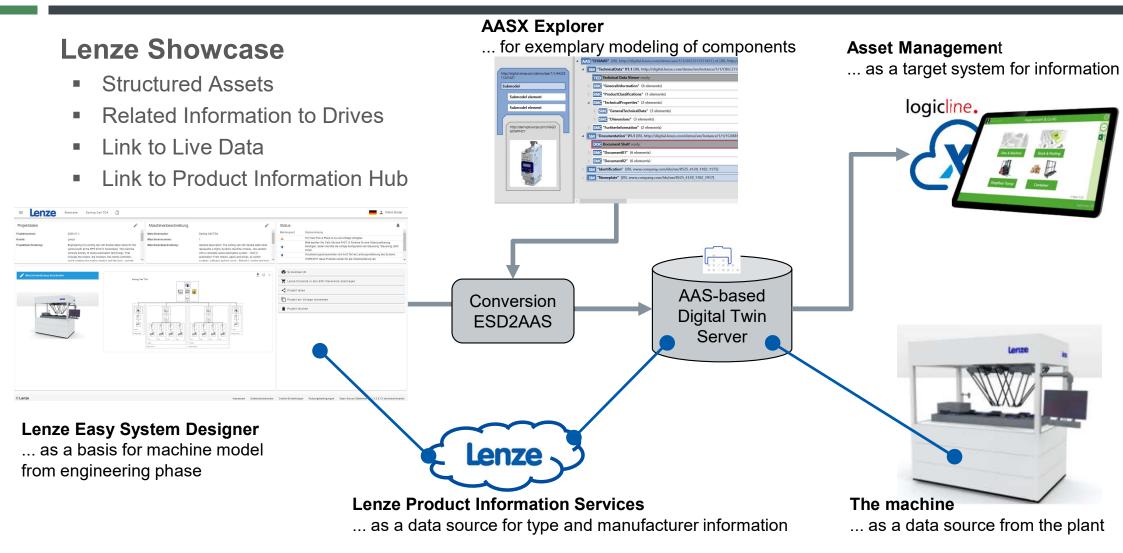




- 1. Why AAS is a smart concept
- 2. Our aim
- 3. How we did it
- 4. What we achieved

How we did it Basis







- 1. Why AAS is a smart concept
- 2. Our aim
- 3. How we did it
- 4. What we achieved

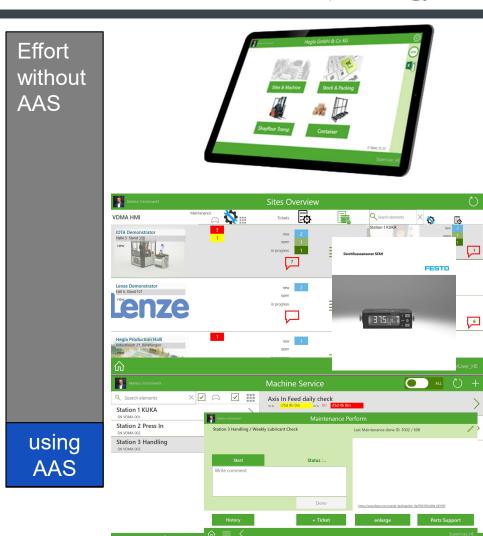
What we achieved Automatic import





Automatic Import:

- of Machine
 - Machine Name
 - Build up
 - Relevant machine Documentation
 - Maintenance Intervals
- is a tremendous benefit!
 - Reducing manual work
 - Eliminating errors / omissions
 - Insuring permanent access to actual data



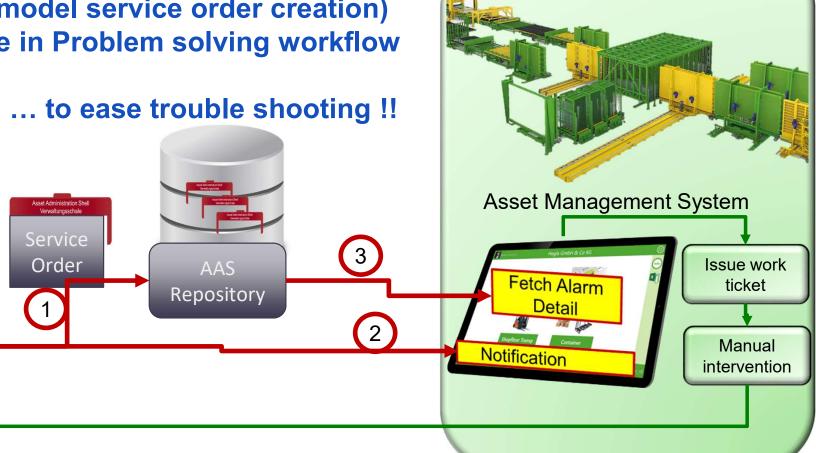
AAS to convey Machine problems



Operator

Use the AAS (Submodel service order creation) integrate Maschine in Problem solving workflow

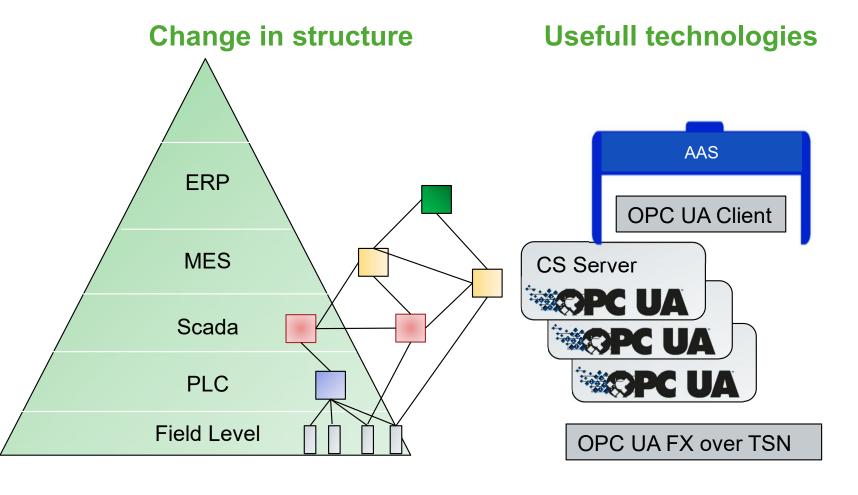




Overview Communication



How we see the future of Automation as machine builder



Benefit

- ✓ Easy machine integration in organization
- ✓ Seamless machine integration into operation
 - ✓ Standardized Fieldbus & connection

What we achieved



In summary we achieved

A Living Demo using AAS for

- Connecting machines from different suppliers
- automated import of Machine data to Asset Asset Mgmt System
- Machine Alarming issuing to Asset Mgmt System

... showing the potential of **saving time and cost** for machine administration and speeding up maintenance

...if you want to know more... let me know



Dr. Markus Schoisswohl
Hegla New Technology GmbH & Co KG
Karl Schurz Strasse 32
33100 Paderborn
markus.schoisswohl@hegla.de