



In partnership with



AFNeT Standards Days

Application of standards in Smart Manufacturing

Handling of Handover documentation in Plattform Industrie 4.0

Dr. Michael Hoffmeister, Festo SE & Co. KG

<http://standardsdays.afnet.fr> - AFNeT Standards Days 2020 : 6 & 7 October 2020



- Festo is an internationally renowned supplier for automation components (linear motion, pneumatics, electric drives, factory and process automation)
- 300.000 customers, >33.000 catalogue products, complex systems, many different applications
→ supporting our customers with "digital twins" is key enabler for our business
- Dr. Michael Hoffmeister, Executive Expert Digital Business, Festo

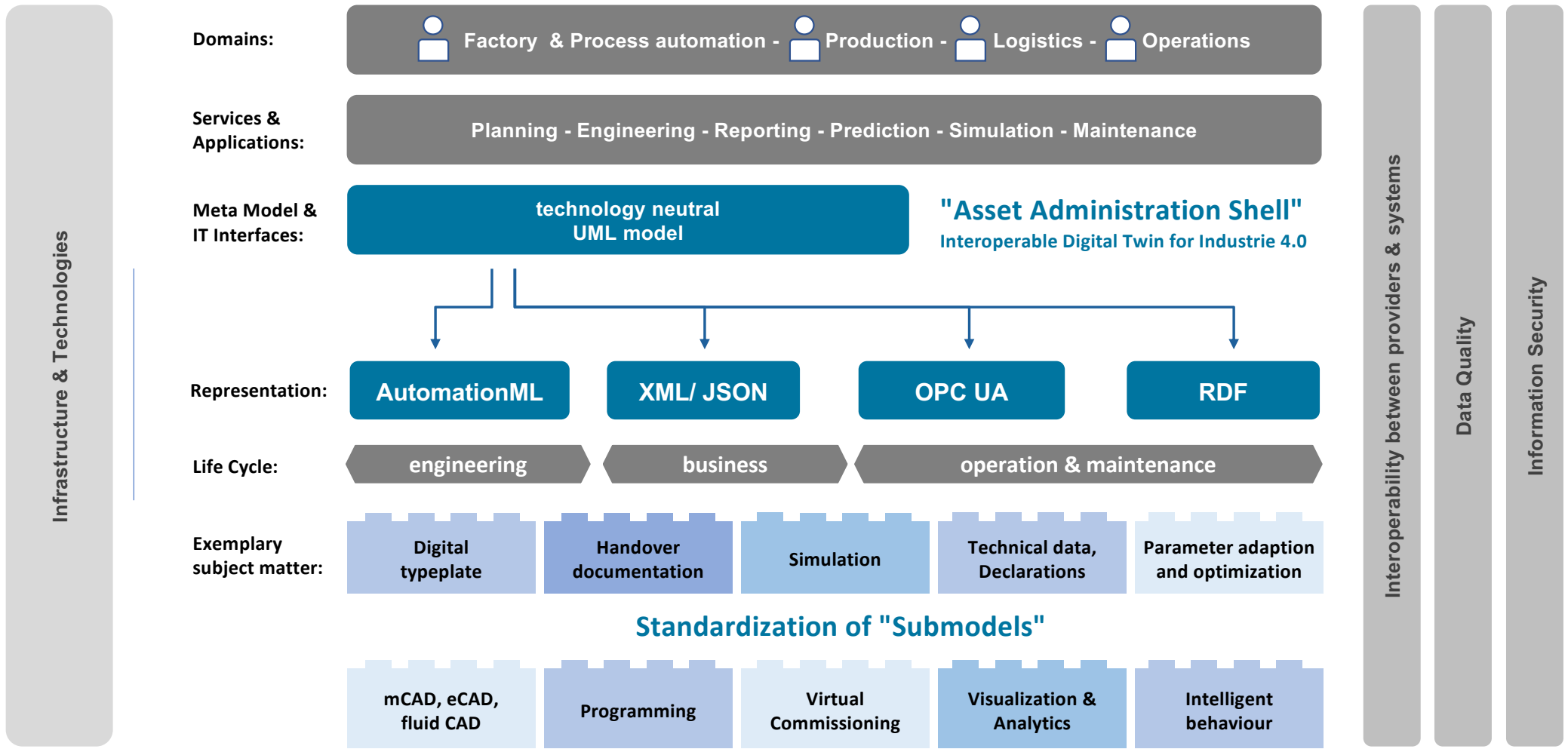
Plattform Industrie 4.0

- network of >300 international companies working on digital transformation in manufacturing
- fields of action: Autonomy, Interoperability, Sustainability
- driving many standardization efforts, such as:
 - many national & international subject matters (ZVEI, VDMA, VDI..)
 - IEC working group "Asset Administration Shell"
 - foundation of "Industrial Digital Twin Association - IDTA"

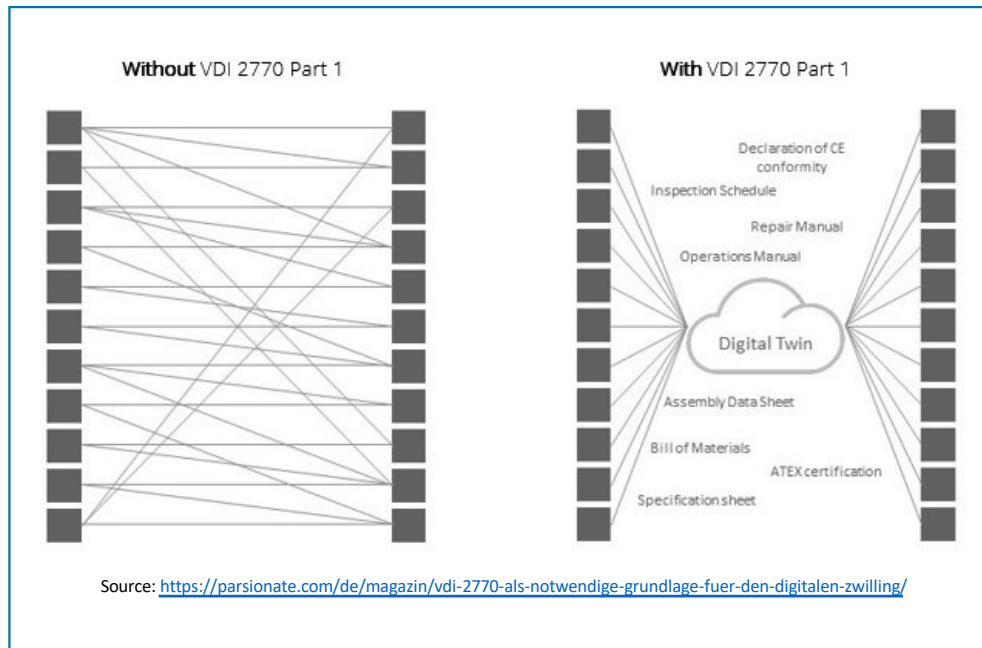
PLATTFORM INDUSTRIE 4.0



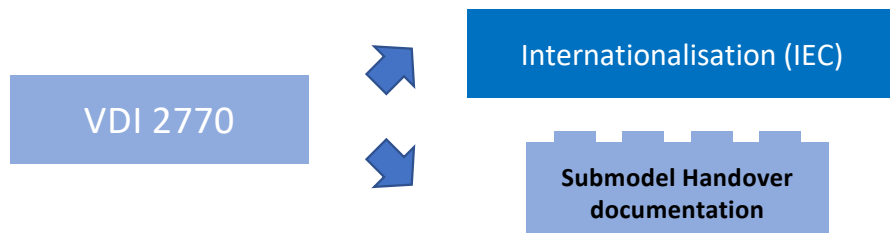
Overall concept of Asset Administration Shell (AAS)



One important building block: Handover documentation

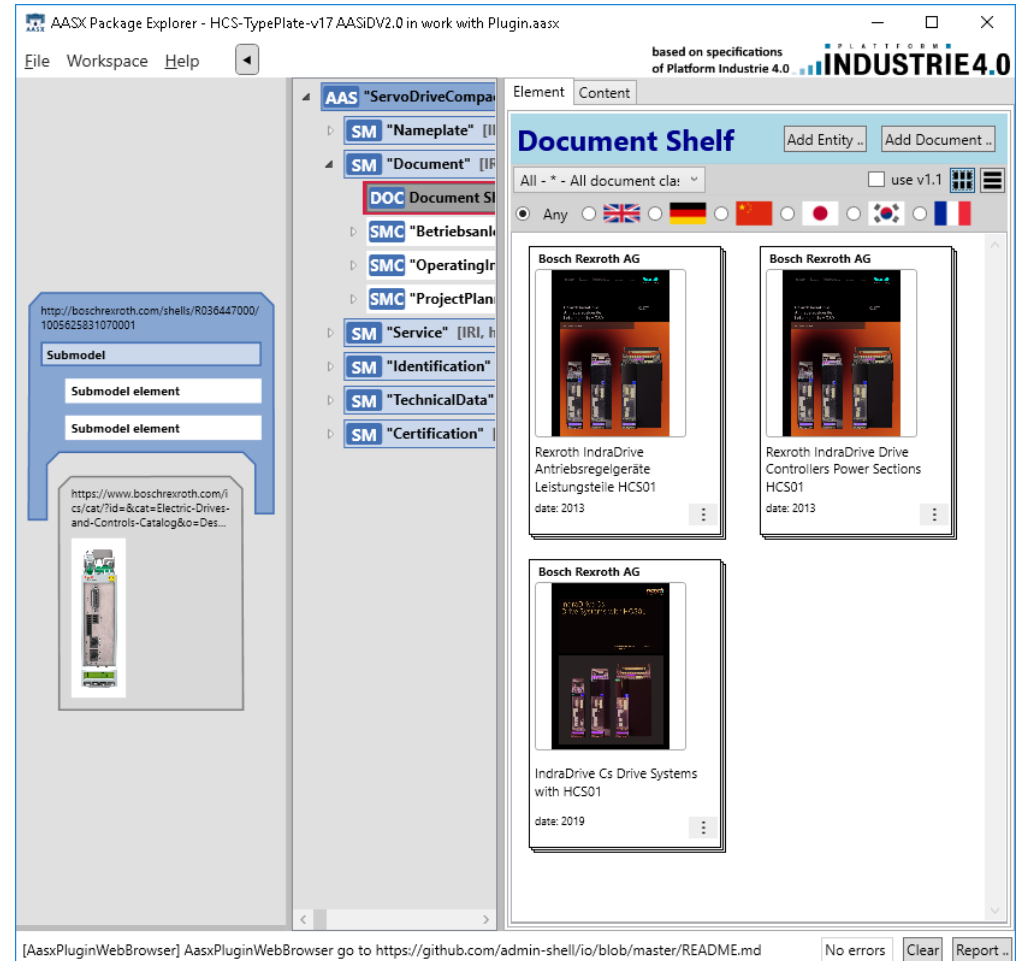
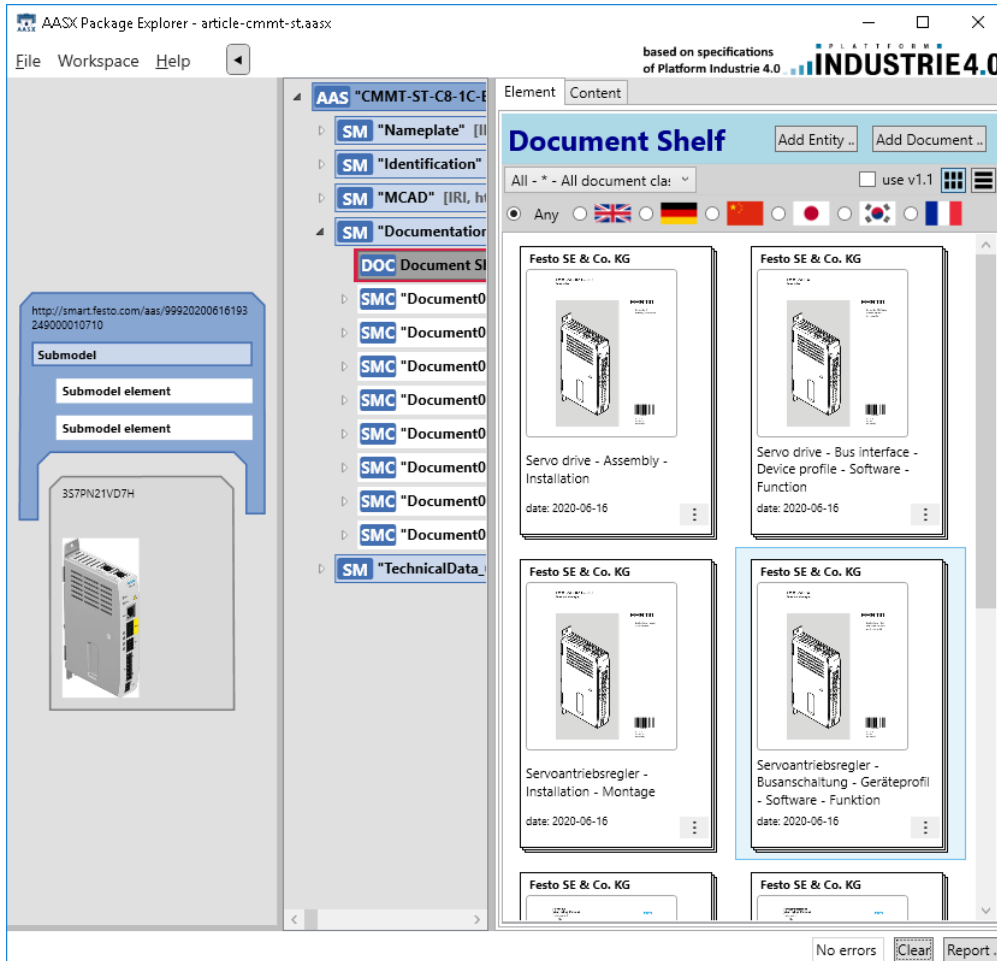


- Digitalisation of **Handover Documentation** from supplier to owner/operator
- Substitutes tedious manual work and legacy mapping/ communication
- Recognizes international standards (e.g IEC 61355)
- Prepared for digital twin concept
- Providers, Identification, Versions, Roles, Titles, Summaries, Keywords, Categories clearly defined



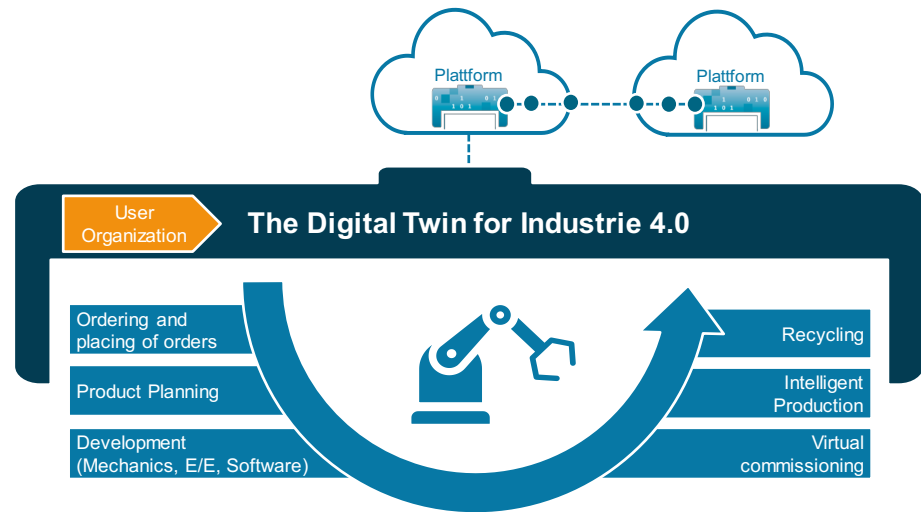
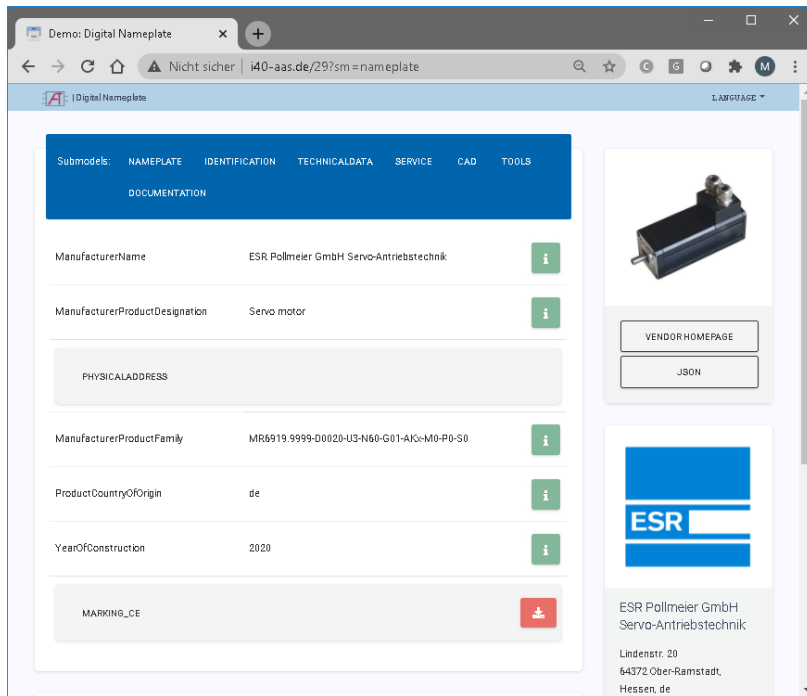
- Self-standing standard, but usage in AAS in preparation
- Different standards will always use the same framework & technologies

Real world examples: Servo drive controllers from two different companies



Open source software: <https://github.com/admin-shell-io/aasx-package-explorer>

Summary: Jointly working towards Interoperable Digital Twin in Smart Manufacturing



Industrial Digital Twin Association

- founded with 20+ companies
- AAS and OPC UA companion standards
- safe handling of IPR & open source
- single point of contact for industry
- joint development of technologies & models

- working on EU level to "legalize" the **Digital Nameplate** of products
- reduction of efforts
- better information <http://i40-aas.de/>

Questions
&
Answers



6th and 7th October

<http://standardsdays.afnet.fr>