Pitch Workstream

Semantics and the Asset Administration Shell

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In the future every...

... vehicle and its components ...

... product produced ...

... will have a digital twin!

Sources Figures: Bosch
Digital Twins: Benefits by Use

Benefits

• homogenization of data landscape
• enhanced data quality
• increased data availability
• strengthened interoperability
• automated processing on supply chain data
• enabled product lifecycle management
INTRODUCTION
You will learn how Digital Twins enable data exchange in the Catena-X dataspace based on clearly defined semantics. Data Sovereignty is ensured by a decentralized approach.

It is summer soon: let's build a convertible!

PHASE 1: DATA CONSUMPTION
Search for existing Digital Twins from different data providers and get the data you are interested in.
Technically: Learn about Discovery and Registry READ Profile of the Asset Administration Shell (AAS) as well as its GetSubmodel API.

PHASE 2: DATA PROVISION
Create and register a Digital Twin that can be accessed by your OEM.
Reference existing Digital Twins of your suppliers via asset IDs in the BOM.
Technically: Learn about Registry Profile and Write APIs of AAS.

PREREQUISITES:
→ Bring your computers! (Pre-Install Postman!)
Look forward and don’t forget to also bring community spirit and your questions!