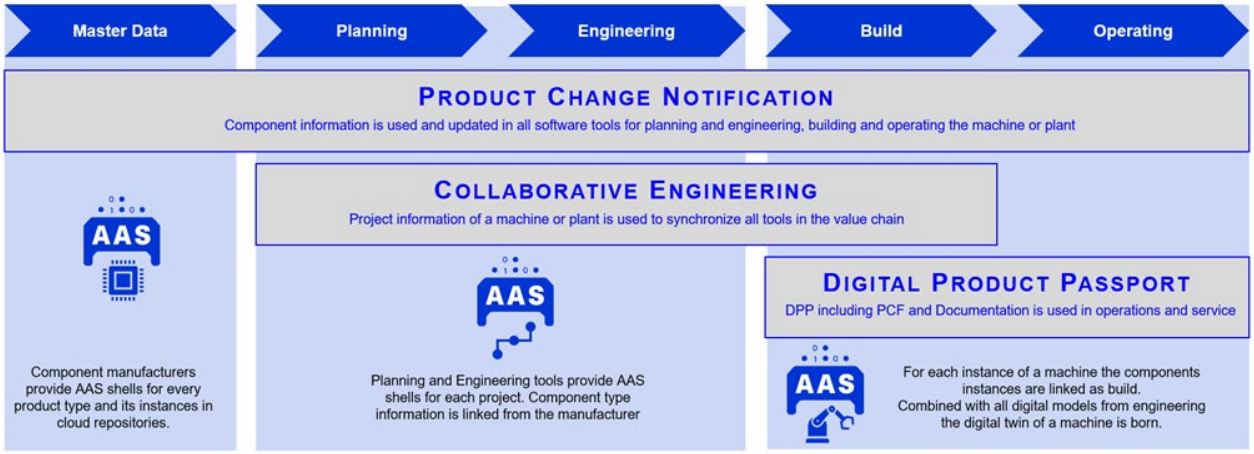
Factsheet Collaborative Engineering



THE DIGITAL TWIN IN MECHANICAL AND PLANT ENGINEERING

- End-to-end data consistency from component manufacturer to plant operator
- Digital engineering across the boundaries of software systems and companies
- Automatic creation of the digital twin of a plant from engineering

Collaborative engineering closes the digital gap between component manufacturers and operators of a machine or plant. Component data is provided as administration shells and planned digitally in the planning and engineering phase. By consistently providing engineering information as AAS, information can be exchanged both between software systems and the companies involved. In the build phase, a project instance is created from a project type. Accordingly, the planned component types are also assigned their real built instances. Taken together, all submodels from the engineering and build phase result in the digital twin of the real machine.

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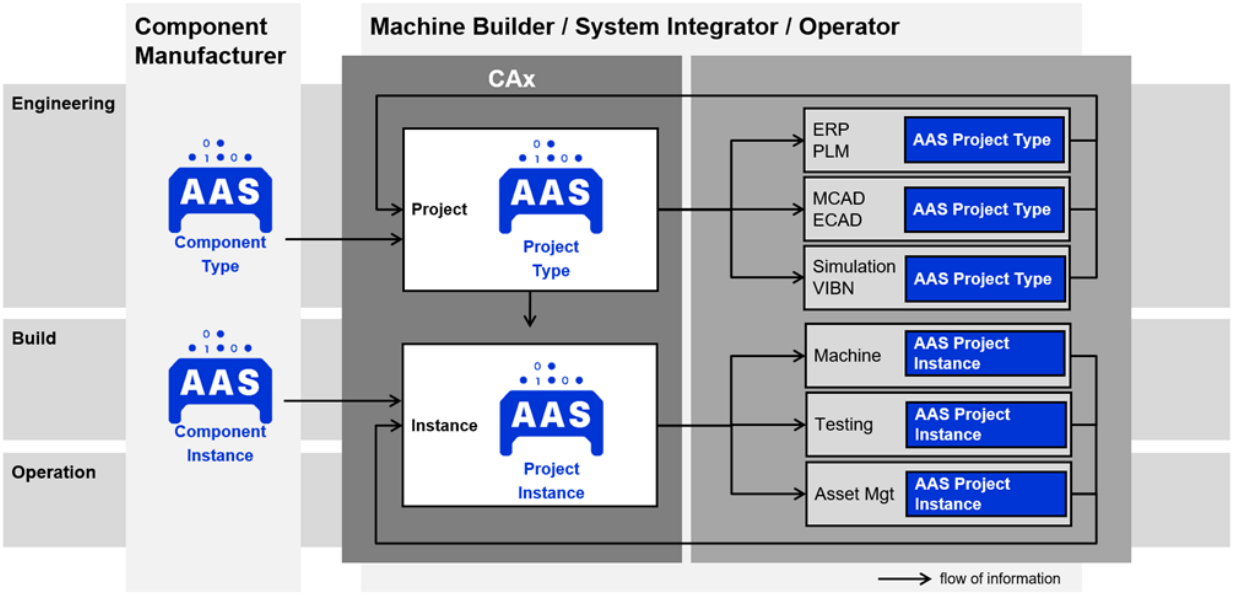
Component Manufacturer
Machine Builder / System Integrator / Operator
CAx
Engineering
Build
Operation
AAS
Component Type
AAS
Component Instance
Project
AAS
Project Type
Instance
AAS
Project Instance
ERP PLM
AAS Project Type
MCAD ECAD
AAS Project Type
Simulation VIBN
AAS Project Type
Machine
AAS Project Instance
Testing
AAS Project Instance
Asset Mgt
AAS Project Instance
flow of information