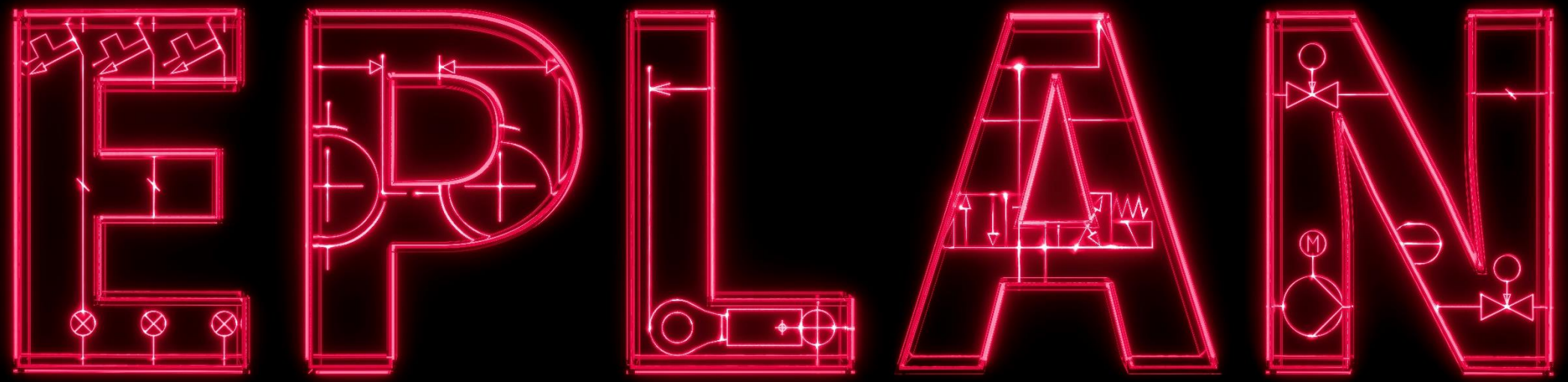
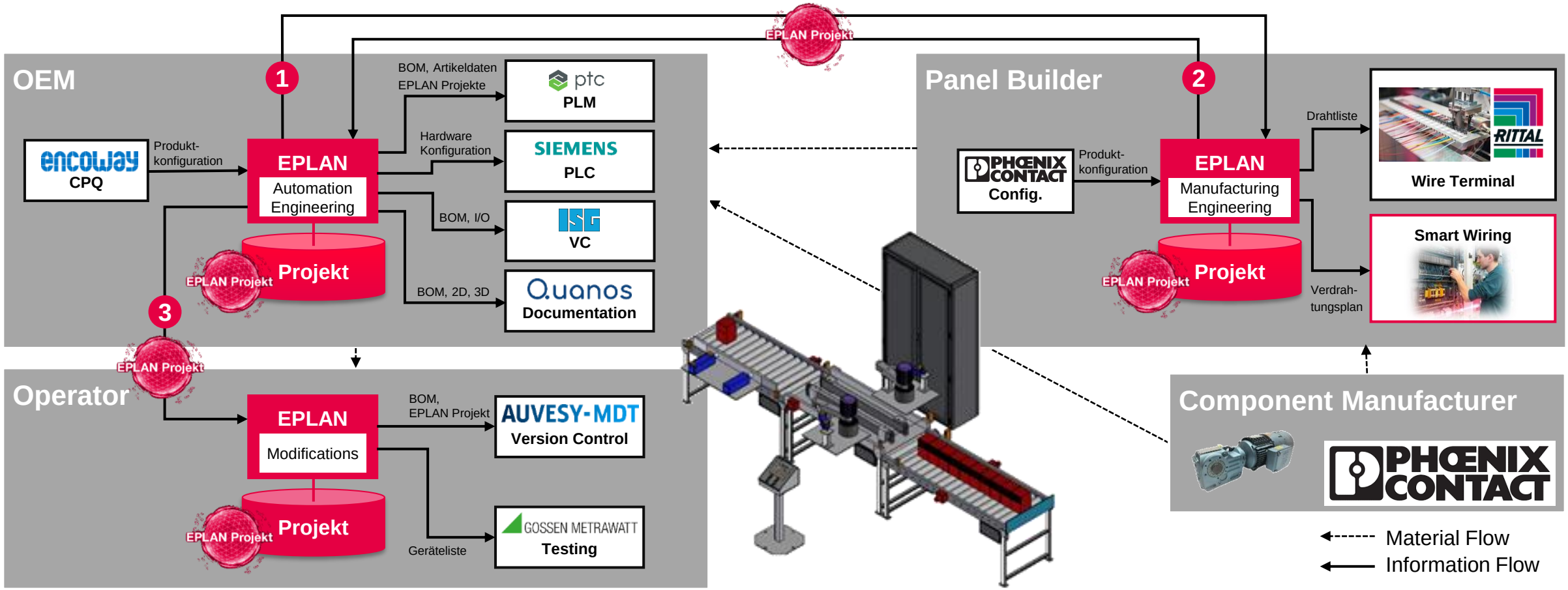


Efficient Engineering is when a PLAN becomes EPLAN.

Collaborative Engineering and seamless Integration with Asset Administration Shell

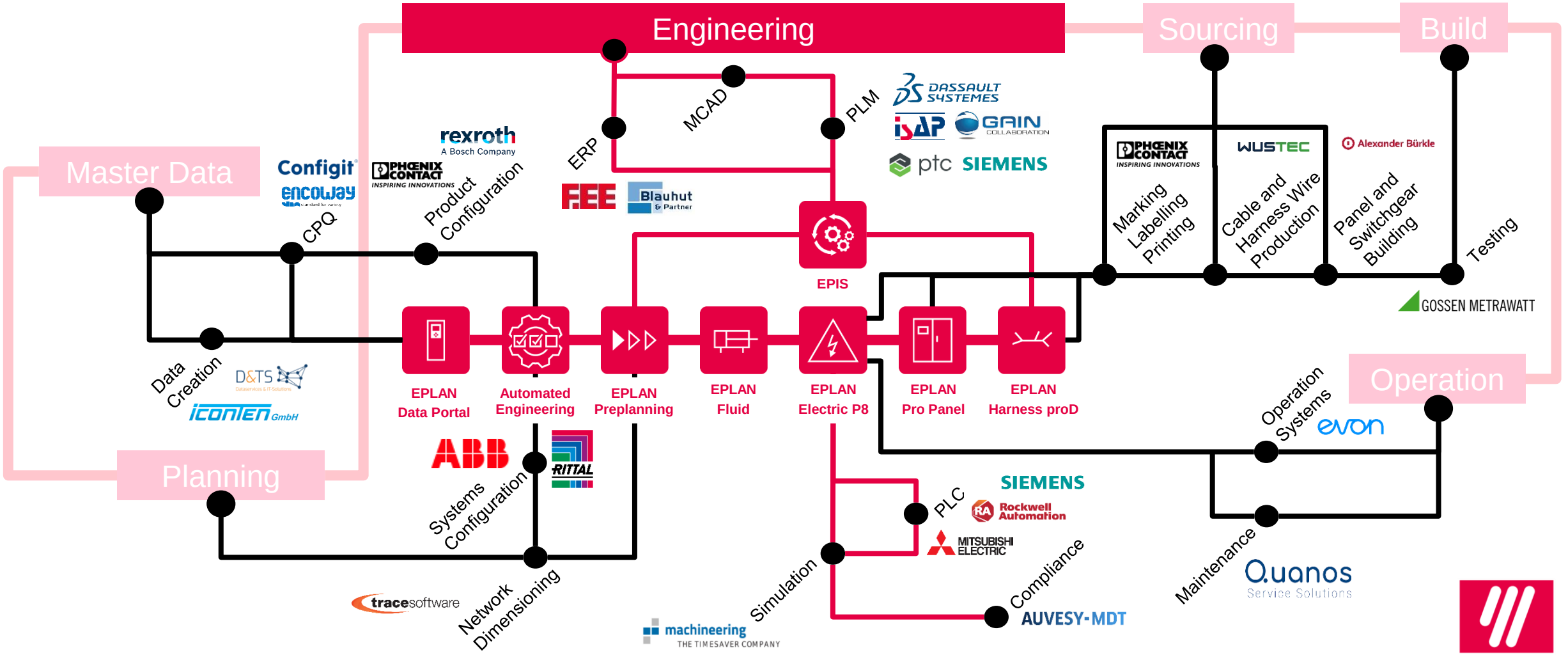
State of the Art: Project Workflows

Realisation of today's internal and cross-company workflows



Collaborative Engineering

Digital Toolchain



PROCESS CONSULTING | ENGINEERING SOFTWARE | IMPLEMENTATION | GLOBAL SUPPORT

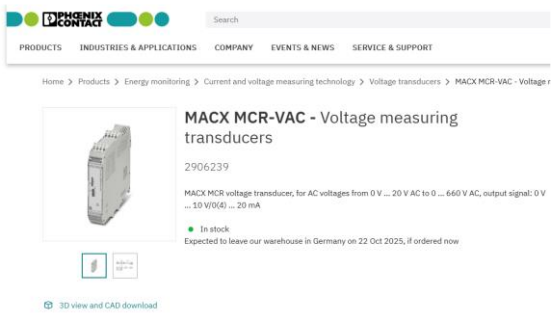
Digital Twin - AAS

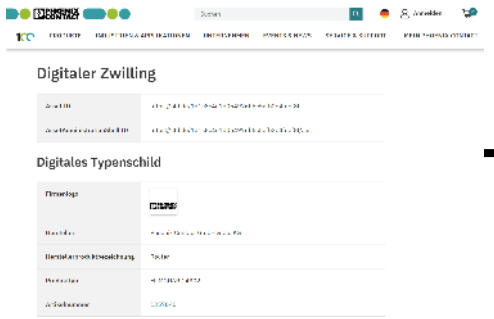
Component

Type

QR-Code
IEC 61406

Instance



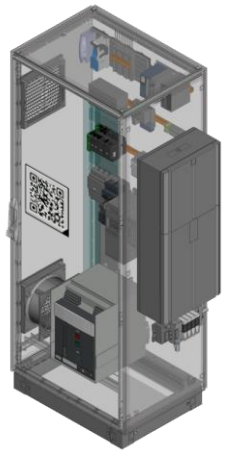


Specification

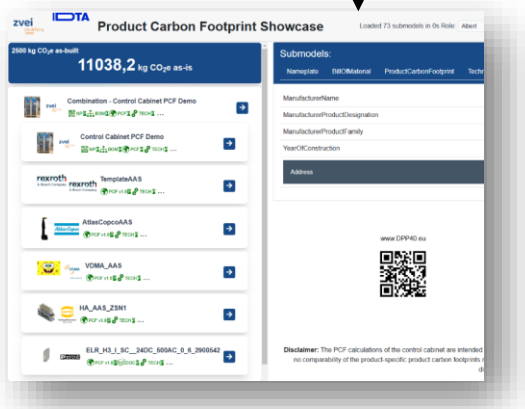
Engineering

Build

Machine

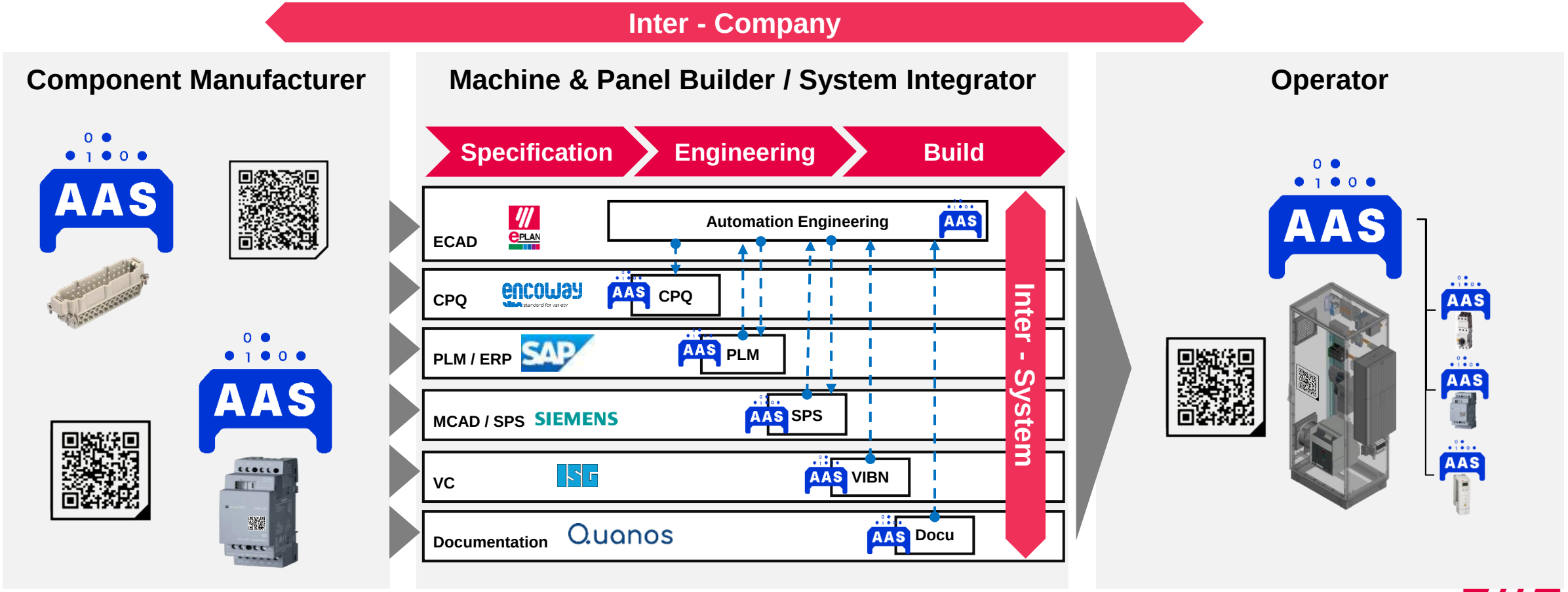


Instance



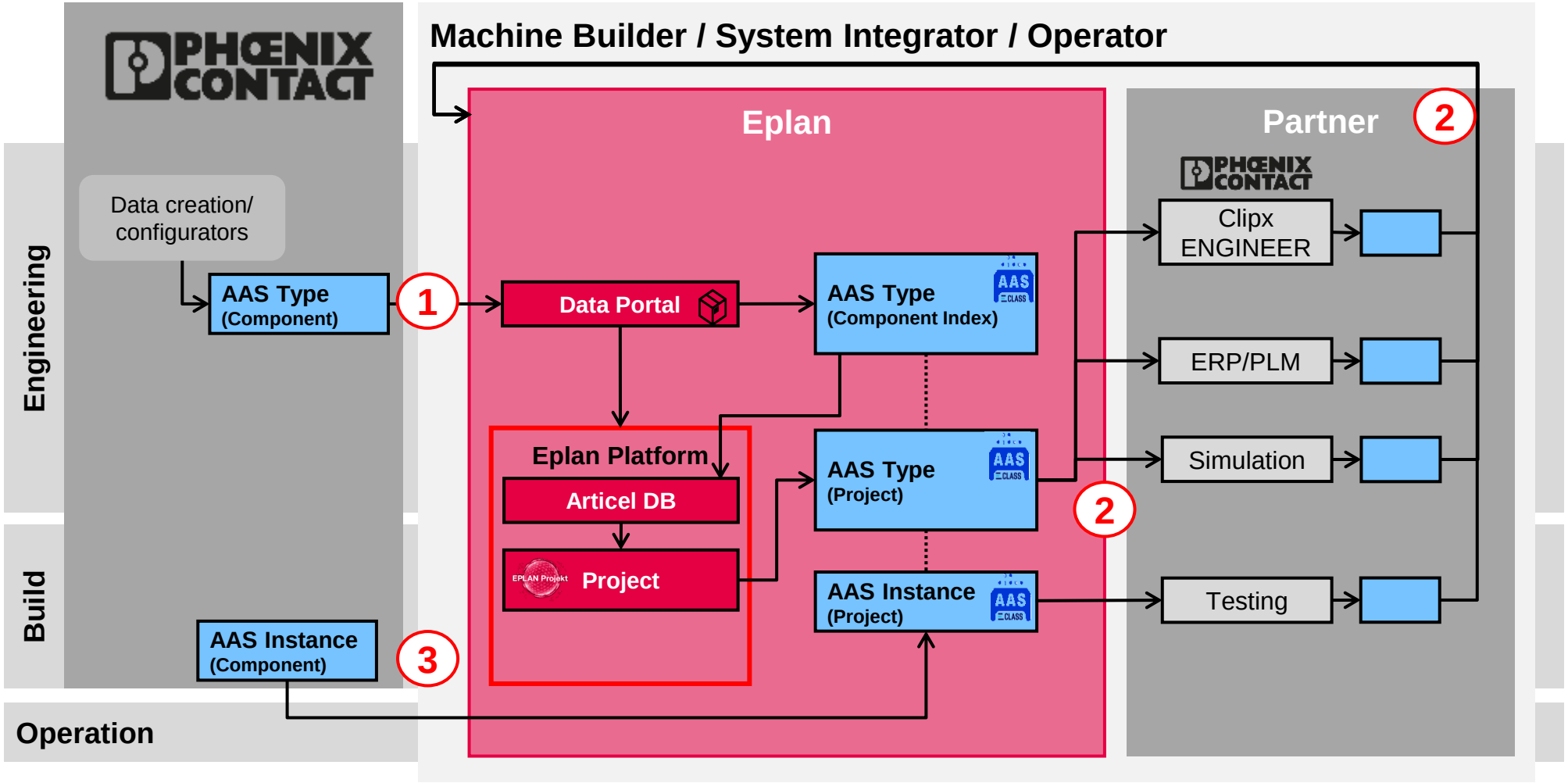
Collaborative Engineering

Cloud collaboration with AAS



Target Picture

Proof of Concepts



Topics

1) **Component Import**
   Import of AAS Type Data from Component Manufacturer
2) **Collaborative Engineering**
   Providing and Consuming Information as AAS
3) **Instance Mapping**
   As-Build documentation

..... reference of information

→ flow of information

Product Change Notifications

Use Cases

Component Manufacturer

AAS

PHOENIX CONTACT

OEM / Panel Builder / System Integrator / Operator

ePLAN Data Portal

Eplan **Partner Network**

> **530** Manufacturer
> **32M** Downloads / Year

> **85** Partner
> **115** Interfaces

Product Change:

- Documentation Update
- Lifecycle (NRND – EOL – EOS)
- Recall
- Product Manufacturing Changes (F-F-F)
- Software Changes (CRA)
- Non-Functional Changes (Certificates etc.)

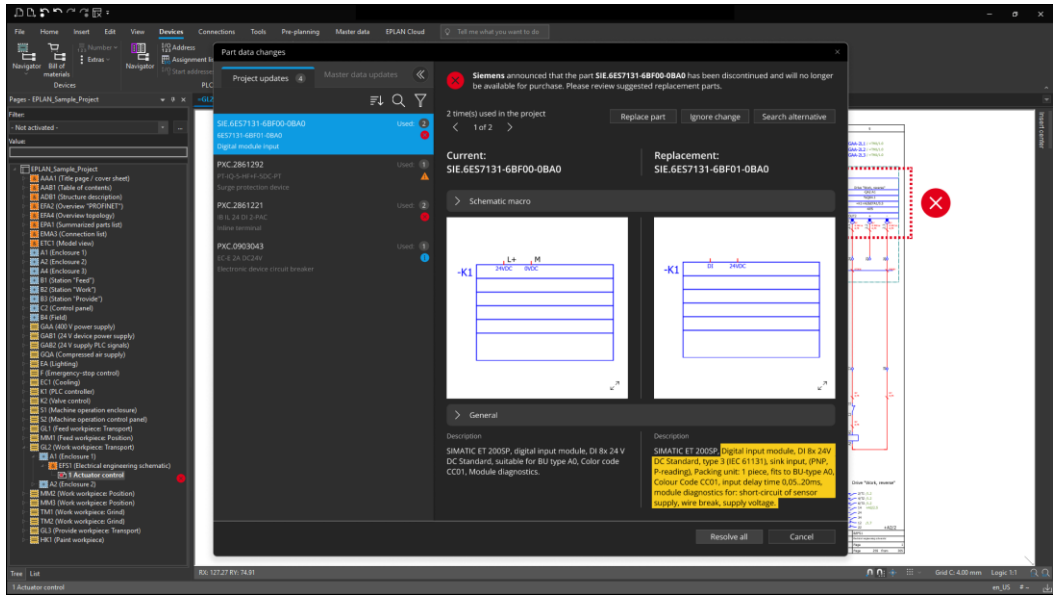
Engineering Change:

- MCAD, ECAD, Software
  - BOM Update
  - Configuration Update

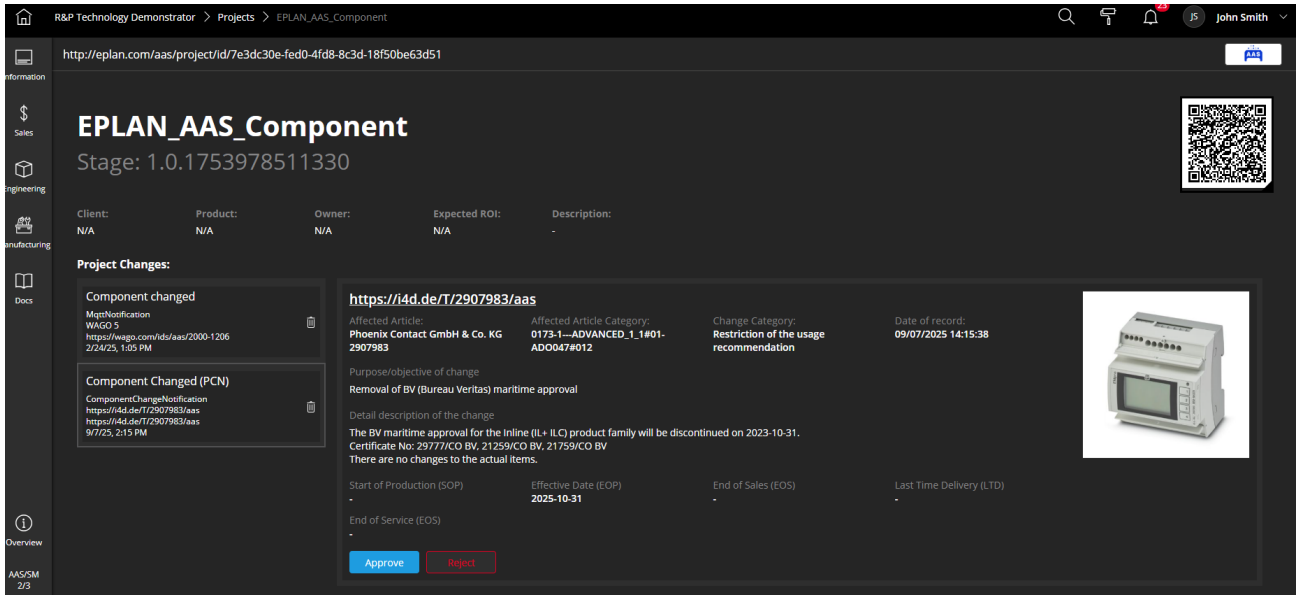
Product Change Notifications

Examples in Eplan Platform

EOL Notification in P8



Certificate Expiration (Cloud)



Productive implementation in progress!

Instance Mapping

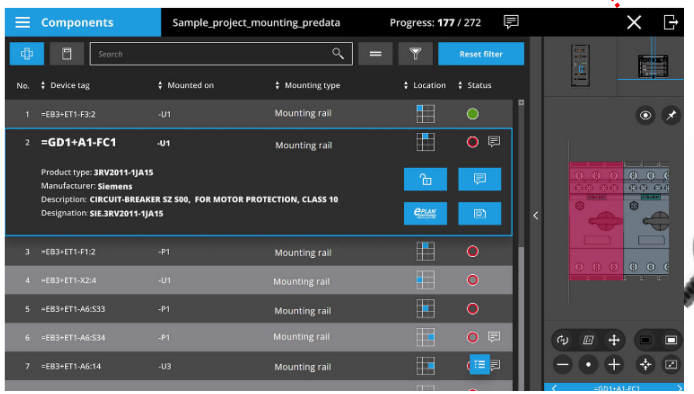
Use Cases

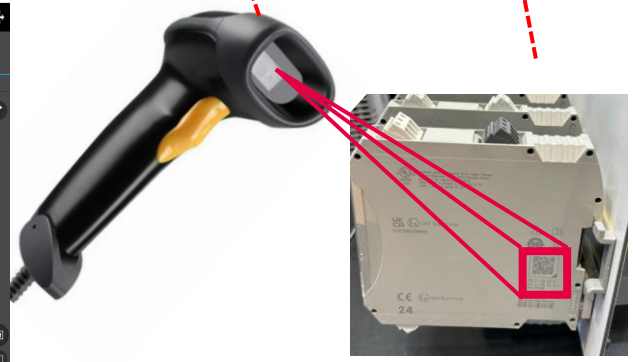
Digital Mounting-Assistent

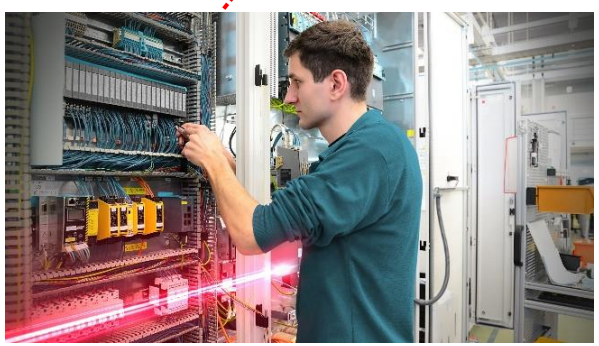
Scan

Asset Instance

Mounting







Assignment in the project (instantiation)

AAS Type	BMK	AAS Instance
https://i4d.de/T/2861292/aas	=GD1+A1-FC1	https://i4d.de/asset/Instance/12344456

Proof of concepts

Prototype with partnerns and customers

Component Manufacturer

PHOENIX CONTACT · SIEMENS · FESTO · WAGO · HARTING · MITSUBISHI ELECTRIC · rexroth A Bosch Company · Lenze · LAPP · SCHUNK · RITTAL · SEW EURODRIVE · Weidmüller

Bidirectional communication and data exchange powered by AAS

Digital Component		**Collaborative Engineering**
Product Change Notification		Digital Value Chain
Technical Data		Digital Toolchain
Operational Data		Digital Twin

PLM

TEAMCENTER

ERP

D&TS Dataservices & IT-Solutions

Wire Manufacturing

HIK WIRE Mind

Component Configurator

encoway standard for variety

Custom Solutions

SIEMENS

Virtual Commissioning

ISG SIEMENS

Powered by AAS IDTA

Ready to **connect**
your entire **ecosystem.**

Julian Rahm