



# OCTOTRONIC

SMART FACTORY ARCHITECTS

**STRUKTURIERTE SHOPFLOOR-DATEN**

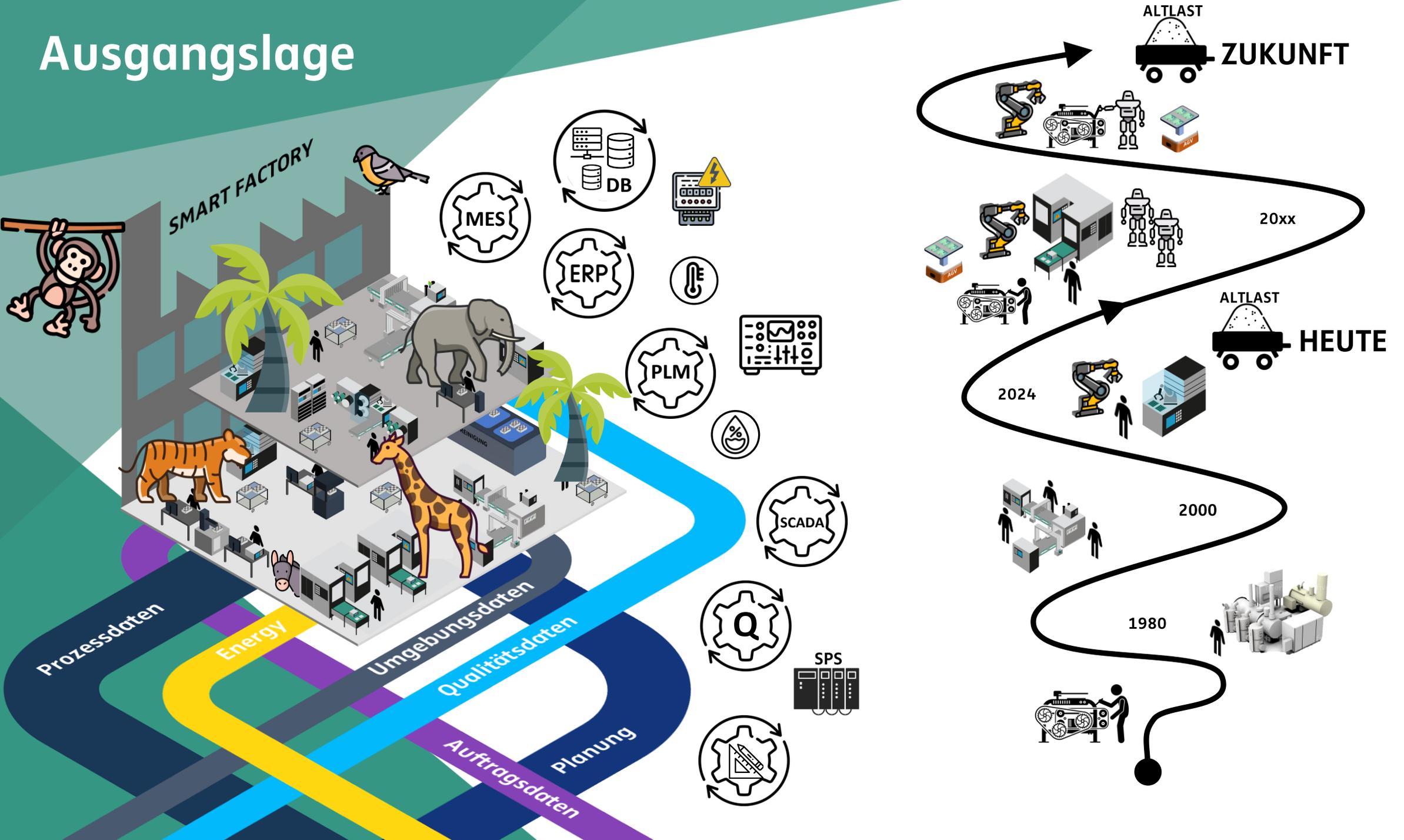
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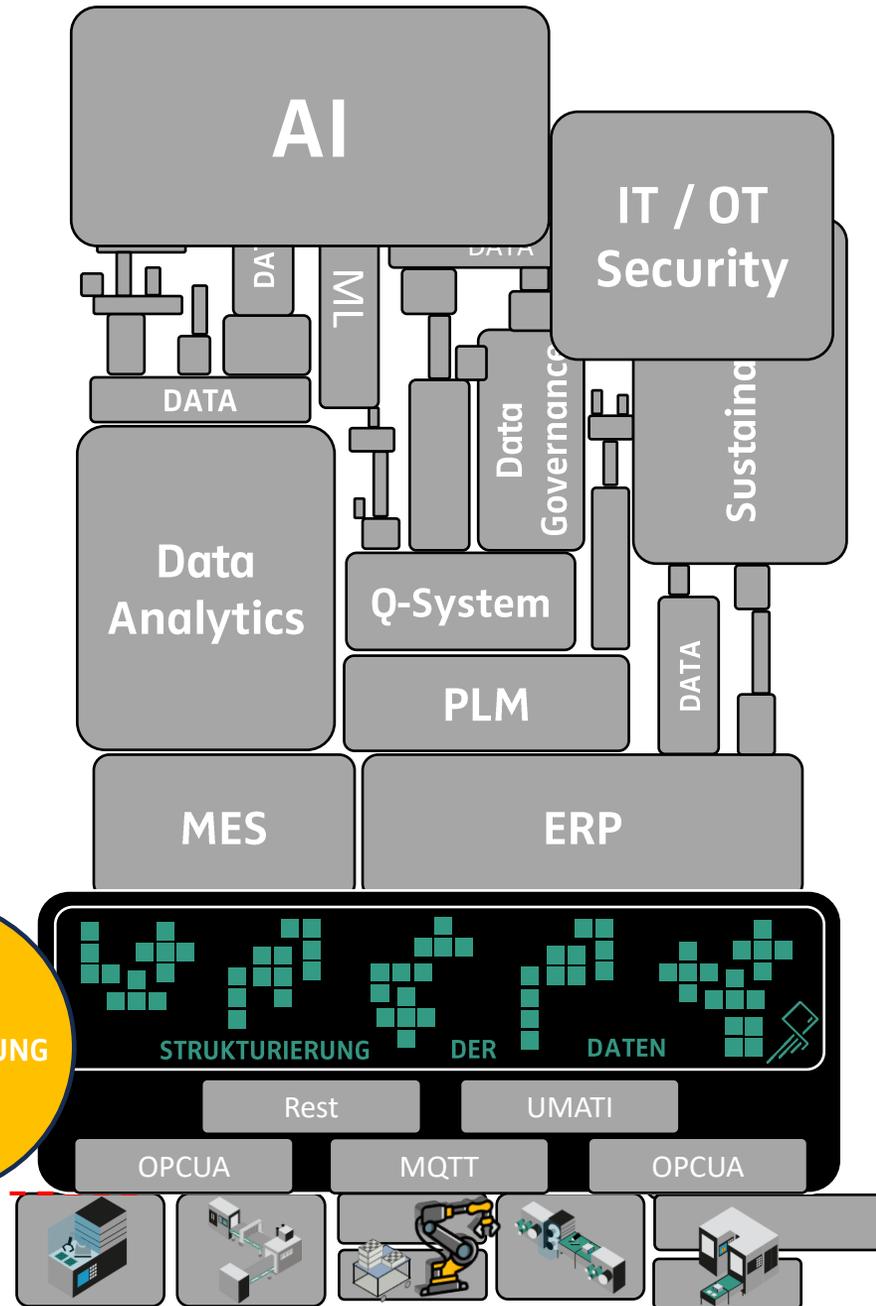
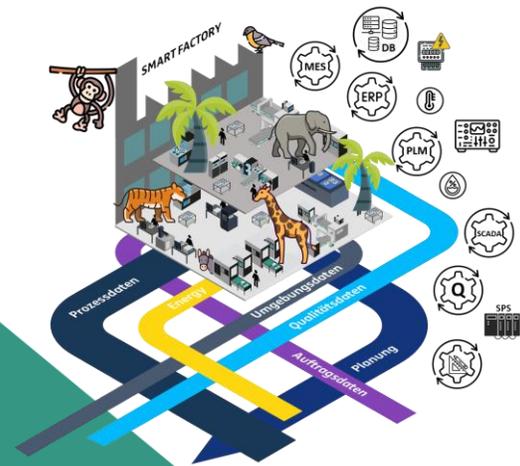
**DER SCHLÜSSEL ZUR AI-ANWENDUNG**

Ihr Lösungsanbieter +  
Integrationspartner  
im Bereich

**Smart Factory**

# Ausgangslage





## Digitale Transformation in der Industriellen Produktion

**85%**

der Industrieunternehmen sehen die **Digitale Transformation als oberste Priorität** an (McKinsey).

**\$ 1,1 B**

investieren Unternehmen jährlich weltweit **in digitale Fabriklösungen** (PwC).

**64%**

der Unternehmen befinden sich noch in einem **frühen Stadium ihrer digitalen Transformation** (PwC).

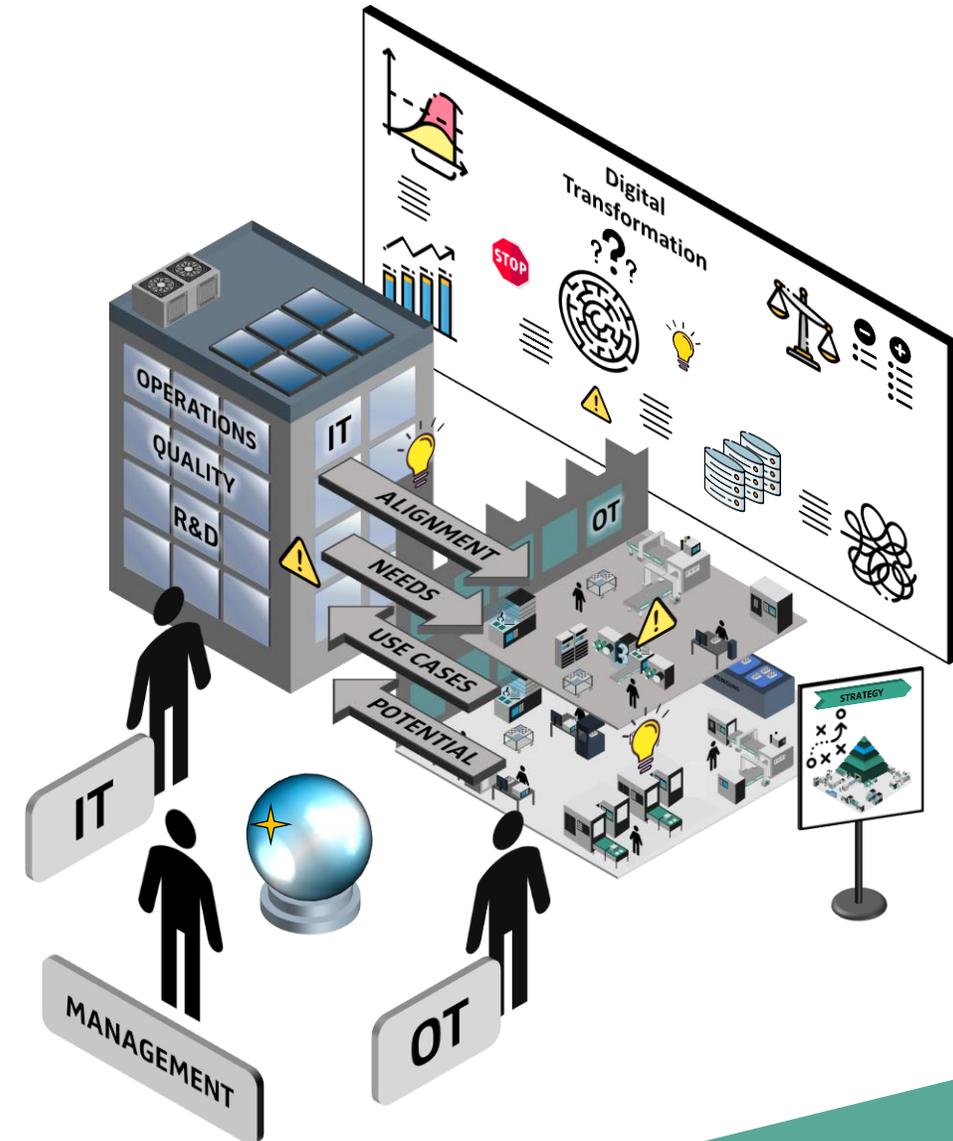


Doch was bedeutet diese allgegenwertigen Fakten? Wieso ist die Industrie nicht schon weiter?

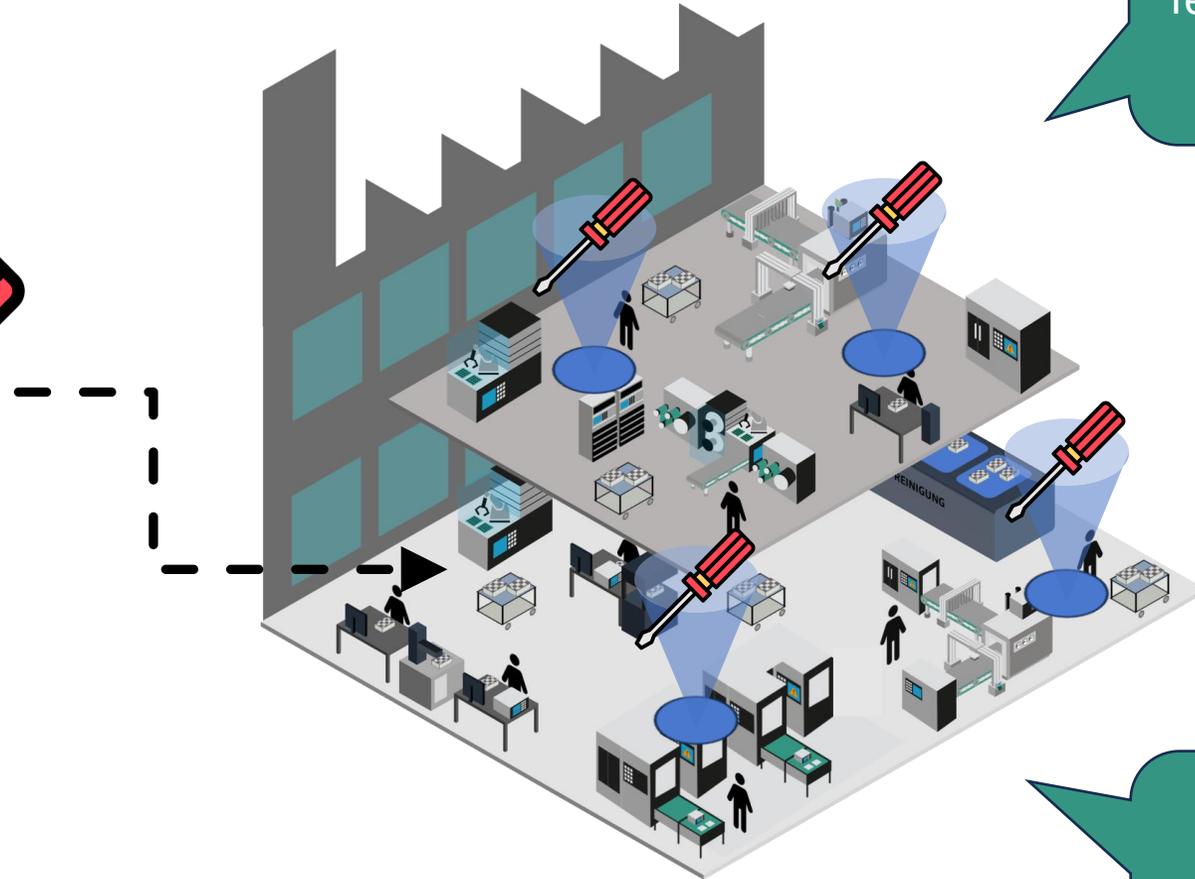
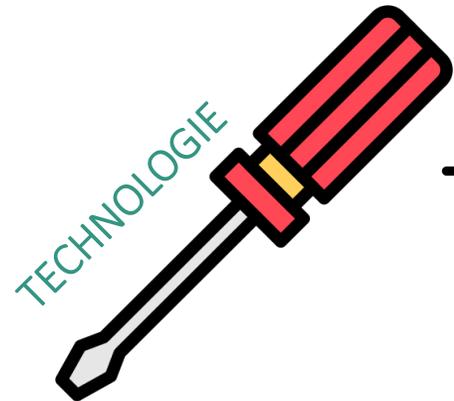
- 🔗 Digitalisierung ist relativ und schwer messbar
- 🔗 Die Digitale Transformation wird durch Use Cases vorangetrieben – von einfacher Data Analytics bis zu komplexen KI-Anwendungen.
- 🔗 **Erfolgsfaktor:** Use Cases skalierbar und ressourceneffizient umsetzen



Erhebliche Technische als auch Organisations Herausforderungen



Technologische Hürden

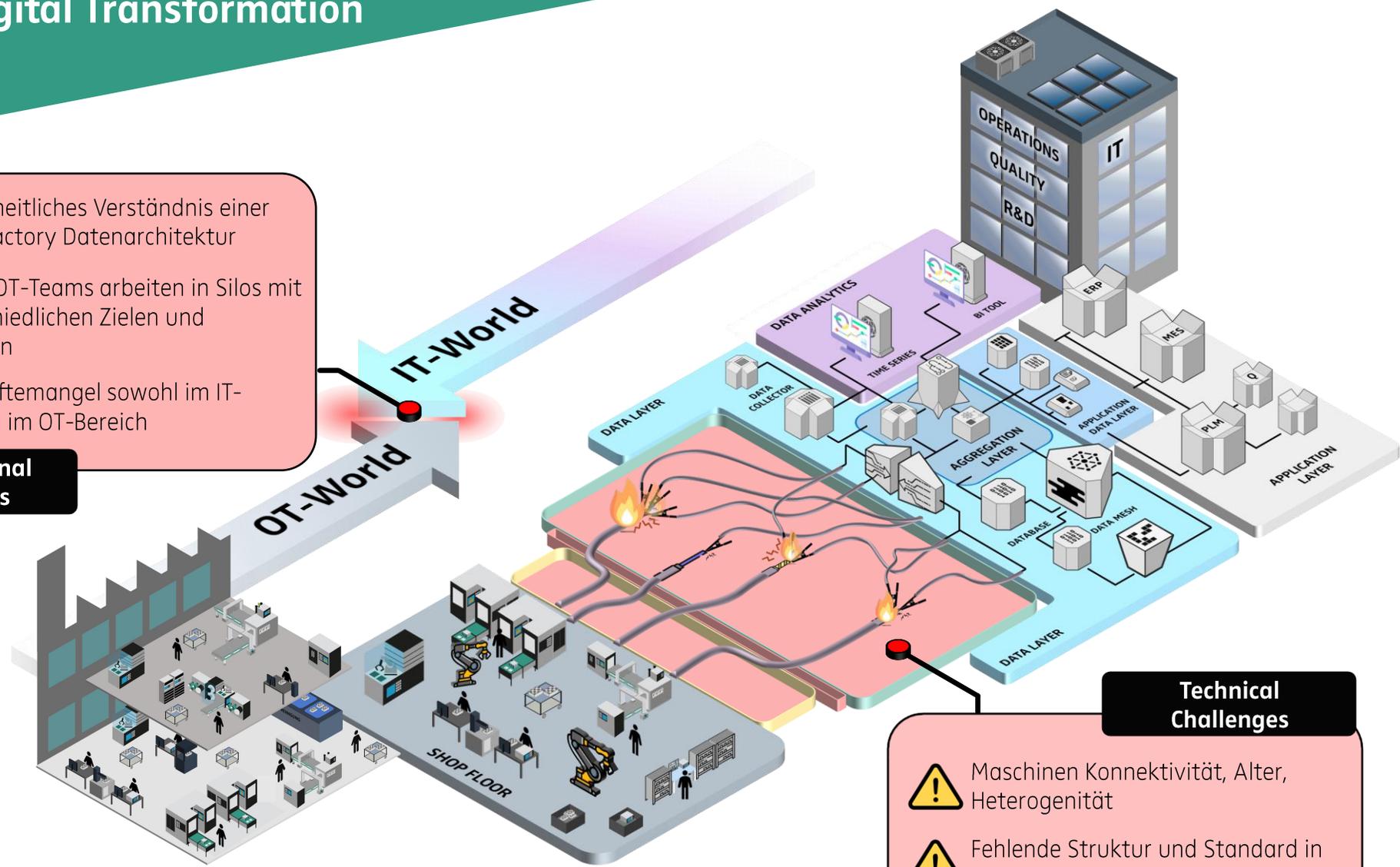


Organisatorische Hürden

# Challenges of Digital Transformation

**Organisational Challenges**

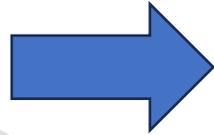
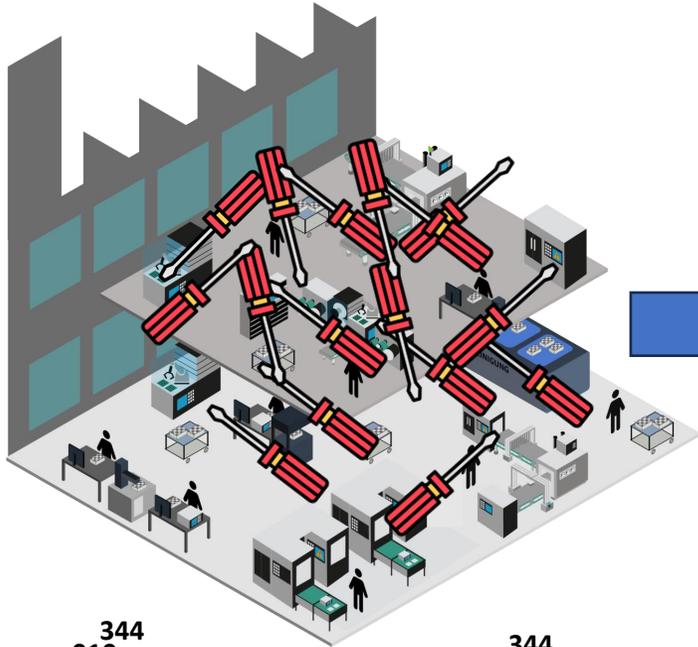
- ⚠️ Kein einheitliches Verständnis einer Smart Factory Datenarchitektur
- ⚠️ IT- und OT-Teams arbeiten in Silos mit unterschiedlichen Zielen und Praktiken
- ⚠️ Fachkräftemangel sowohl im IT- als auch im OT-Bereich



**Technical Challenges**

- ⚠️ Maschinen Konnektivität, Alter, Heterogenität
- ⚠️ Fehlende Struktur und Standard in den Daten
- ⚠️ Use Cases nicht skalierbar und benötigen viel Ressourcen

**Data-Foundation is the Key**



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**BMW  
GROUP**



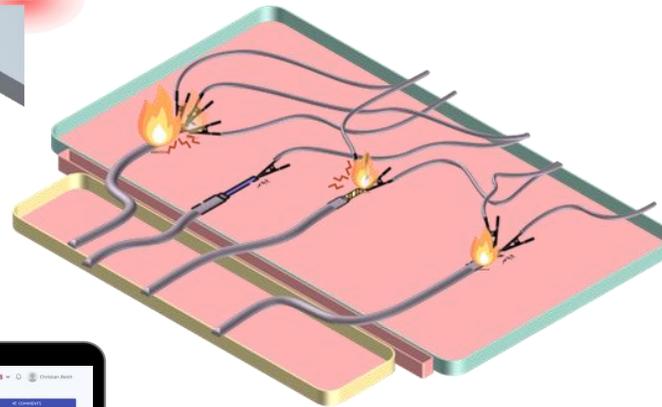
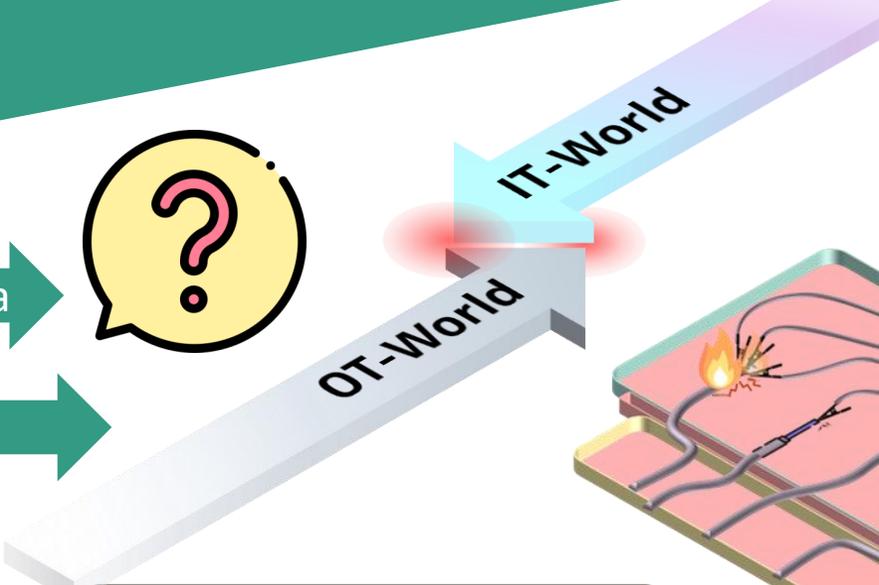
**ROLLS-ROYCE**  
MOTOR CARS LTD



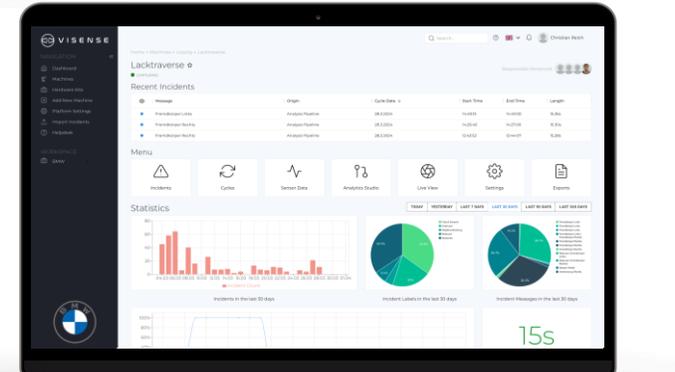
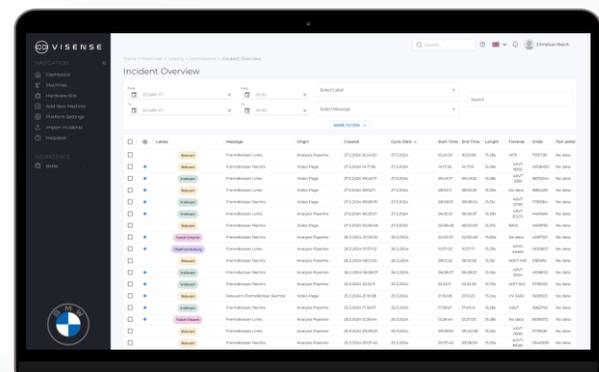
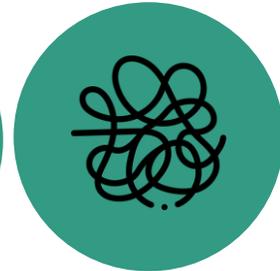
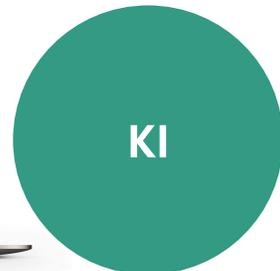
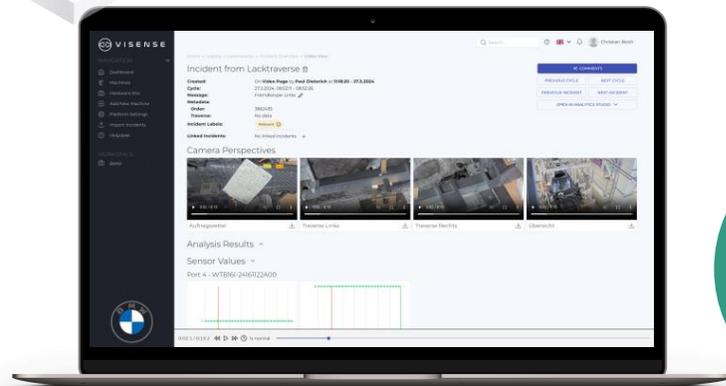


Shopfloor data

Business data



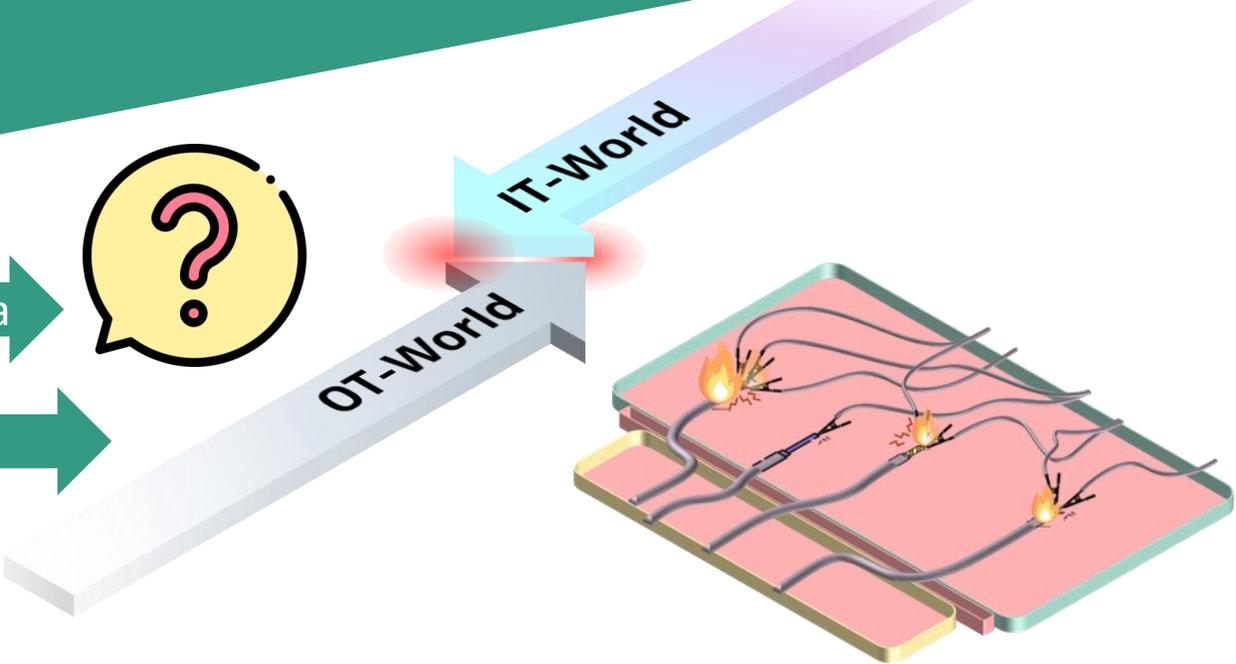
Vision data





Shopfloor data

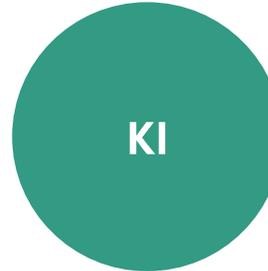
Business data

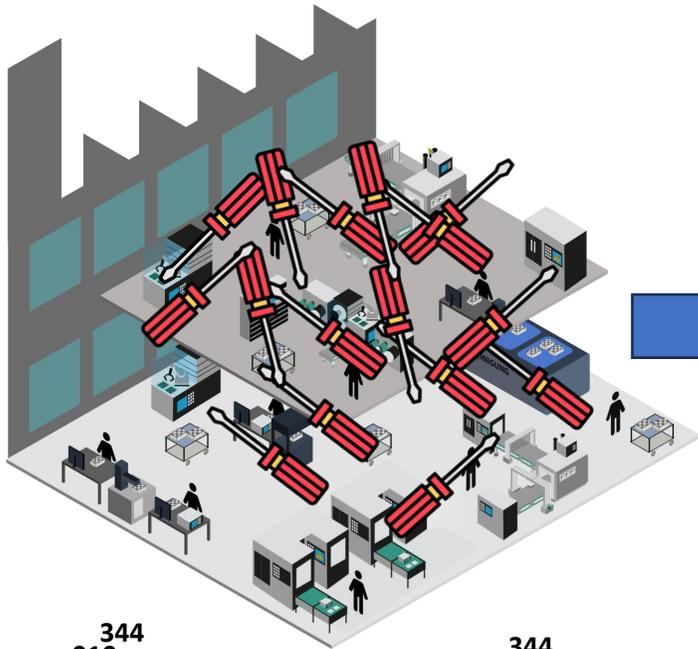


**DATWYLER HUBER+SUHNER YPSOMED**  
SELF-CARE SOLUTIONS



Energy data





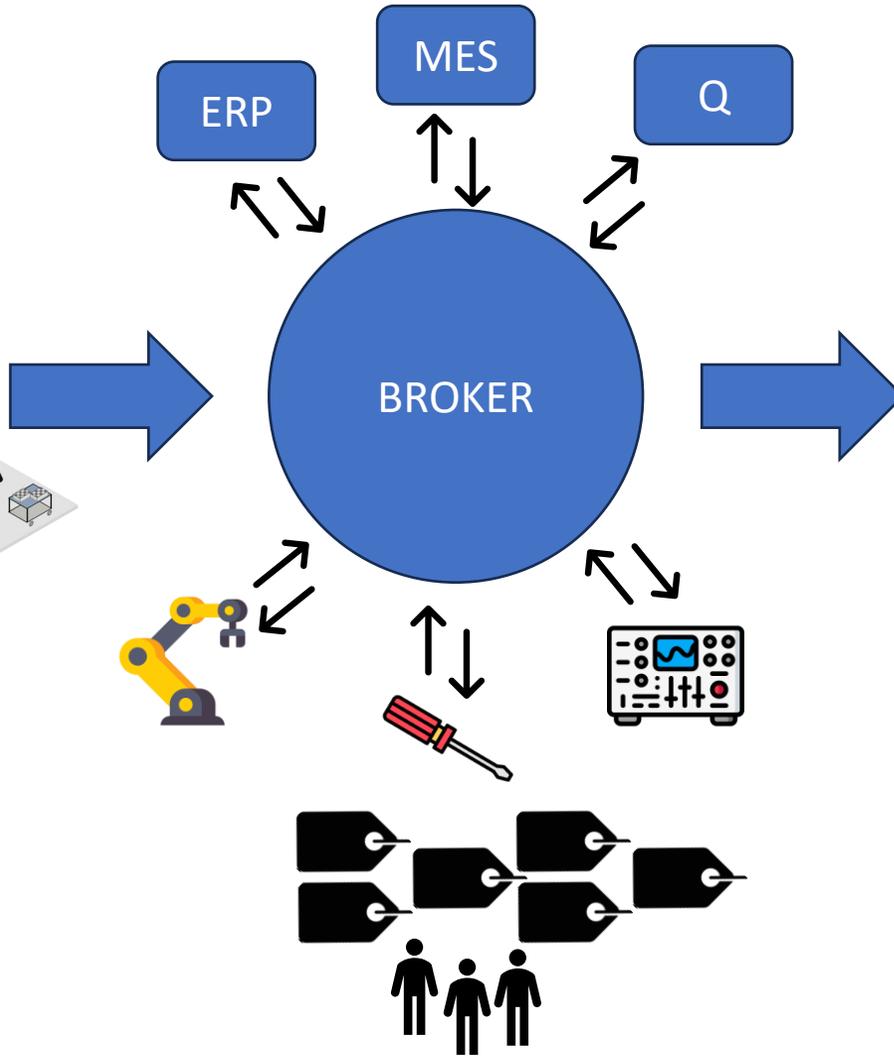
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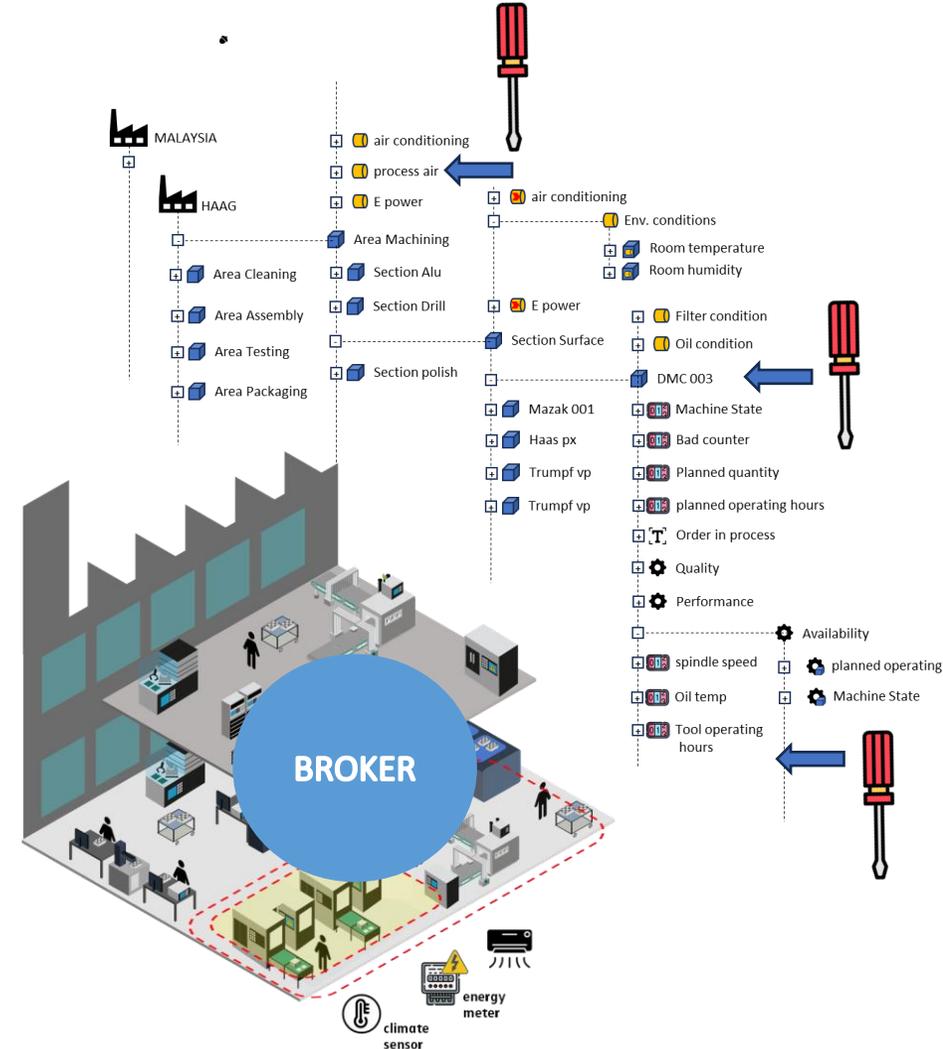
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# UNIFIED NAMESPACE



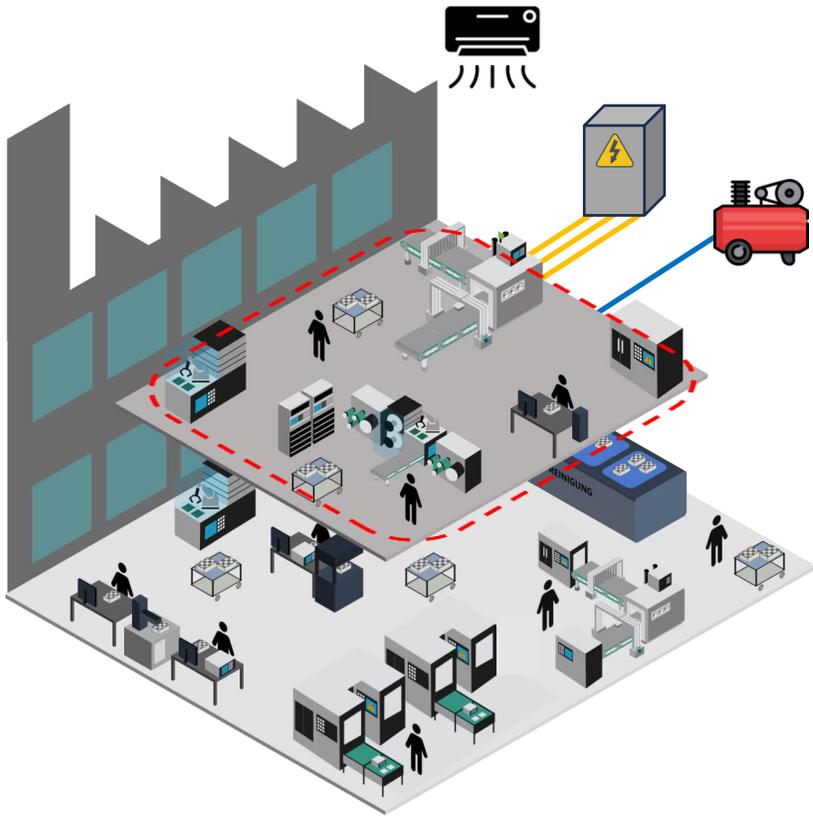
 MALAYSIA



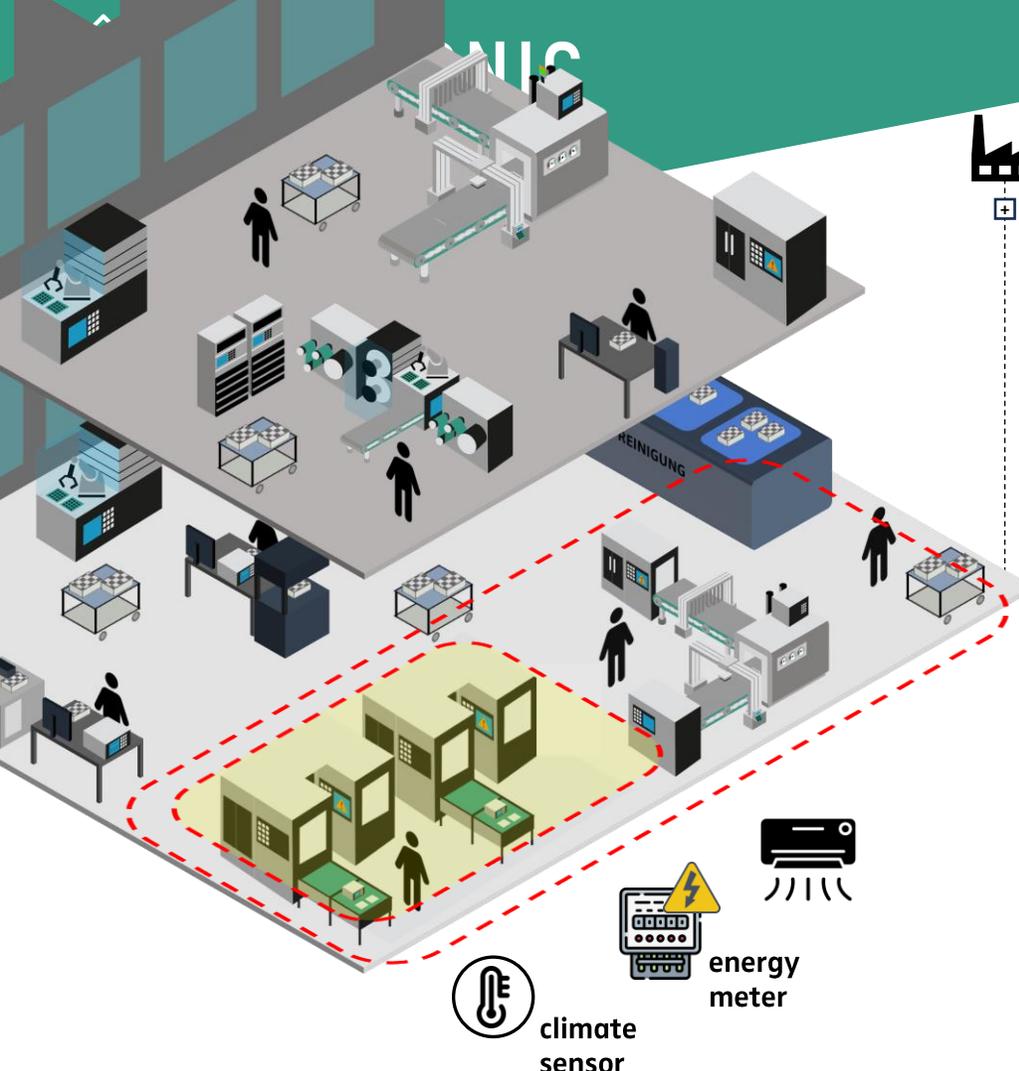
 HAAG

-   Area Machining
-   Area Cleaning
-   Area Assembly
-   Area Testing
-   Area Packaging





- Area Machining
- Area Cleaning
- Area Assembly
- Area Testing
- Area Packaging
- air conditioning
- process air
- E power
- Linie Alu
- Linie Drill
- Linie Surface
- Linie polish



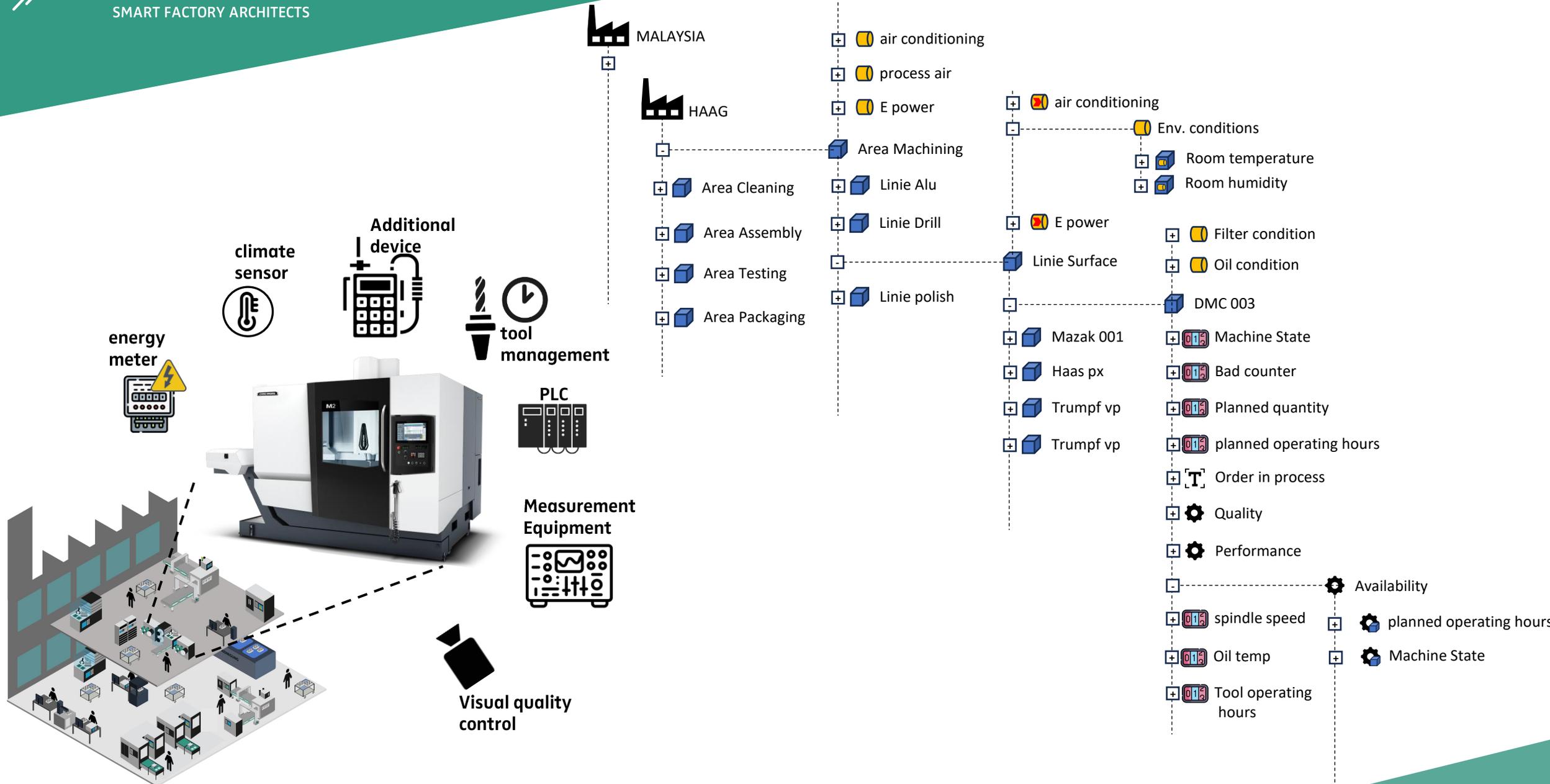
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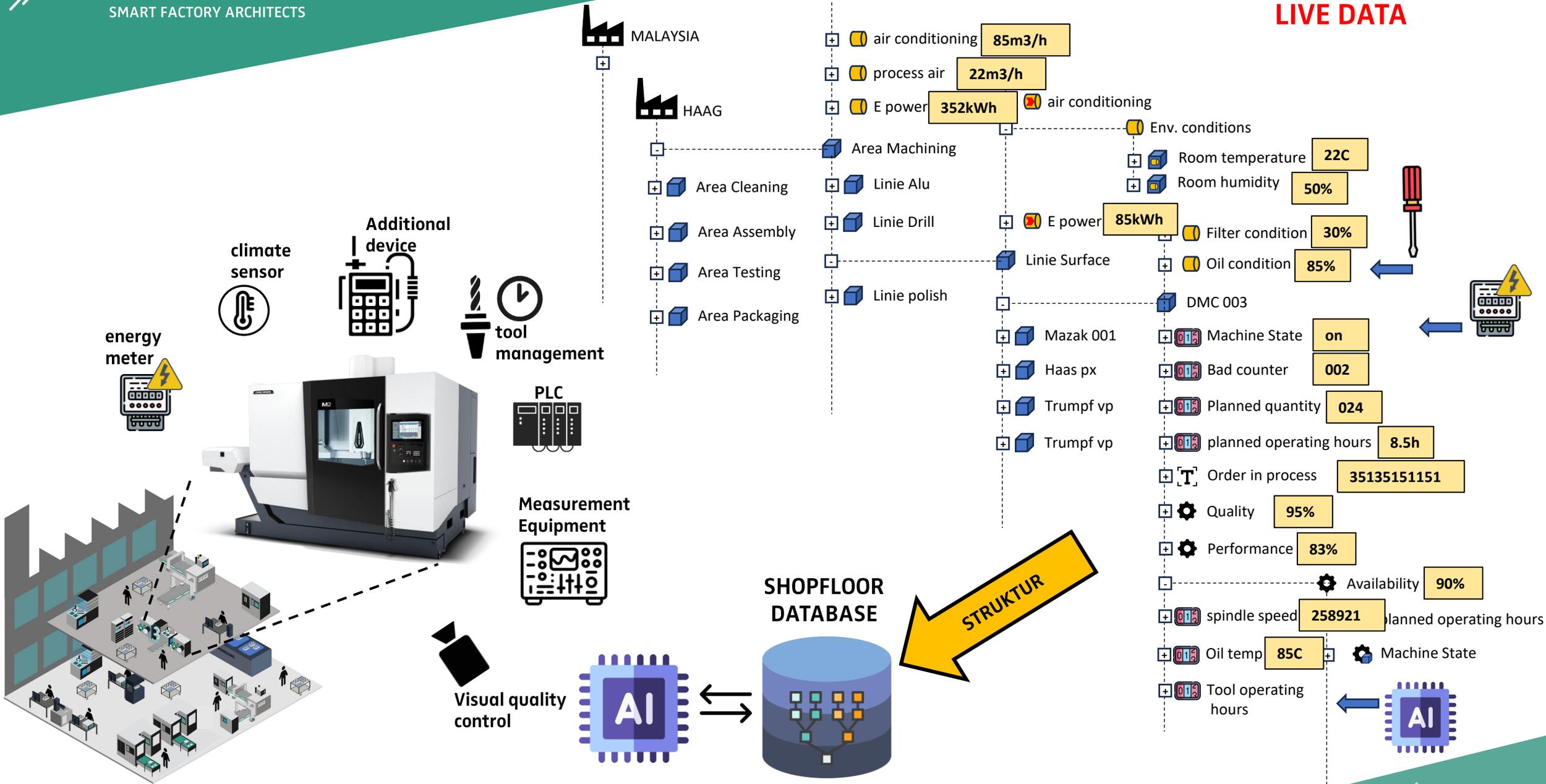
HAAG

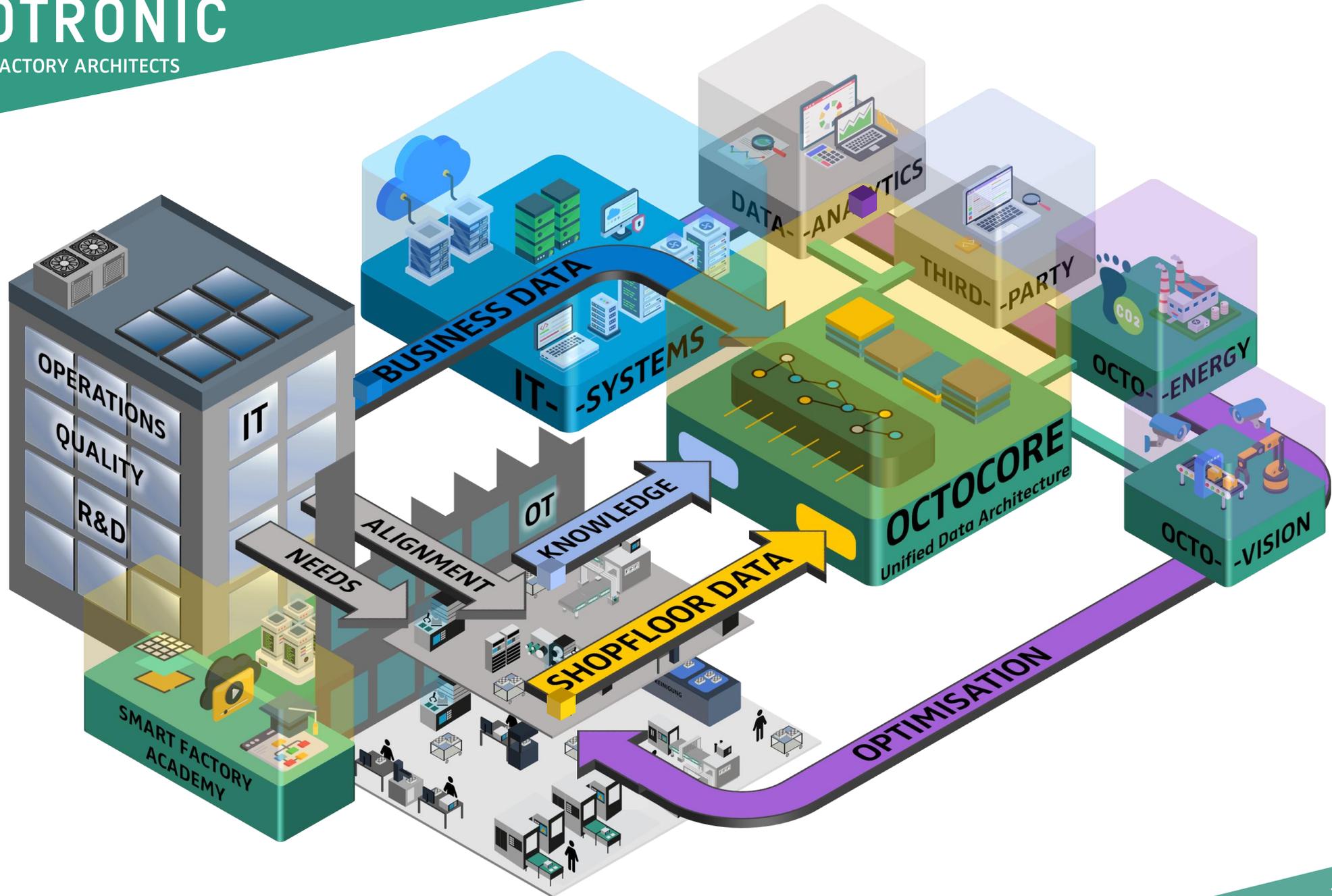
- + Area Cleaning
- + Area Assembly
- + Area Testing
- + Area Packaging

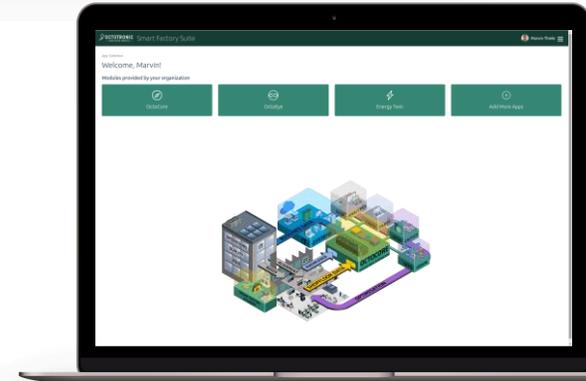
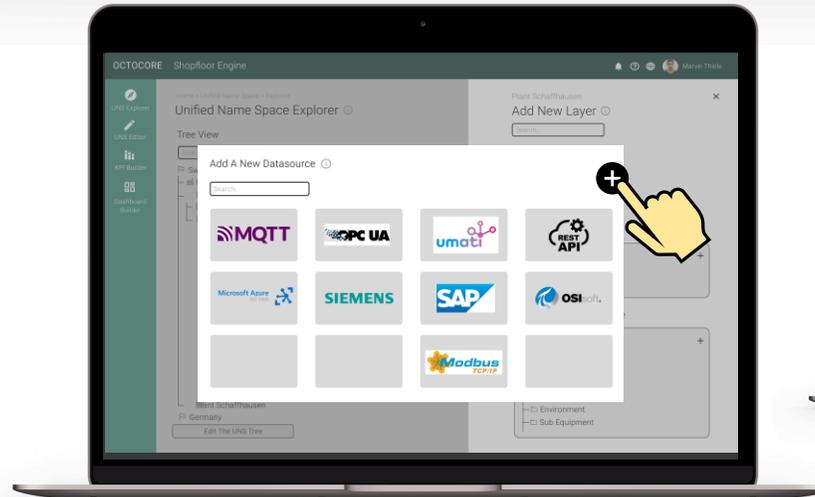
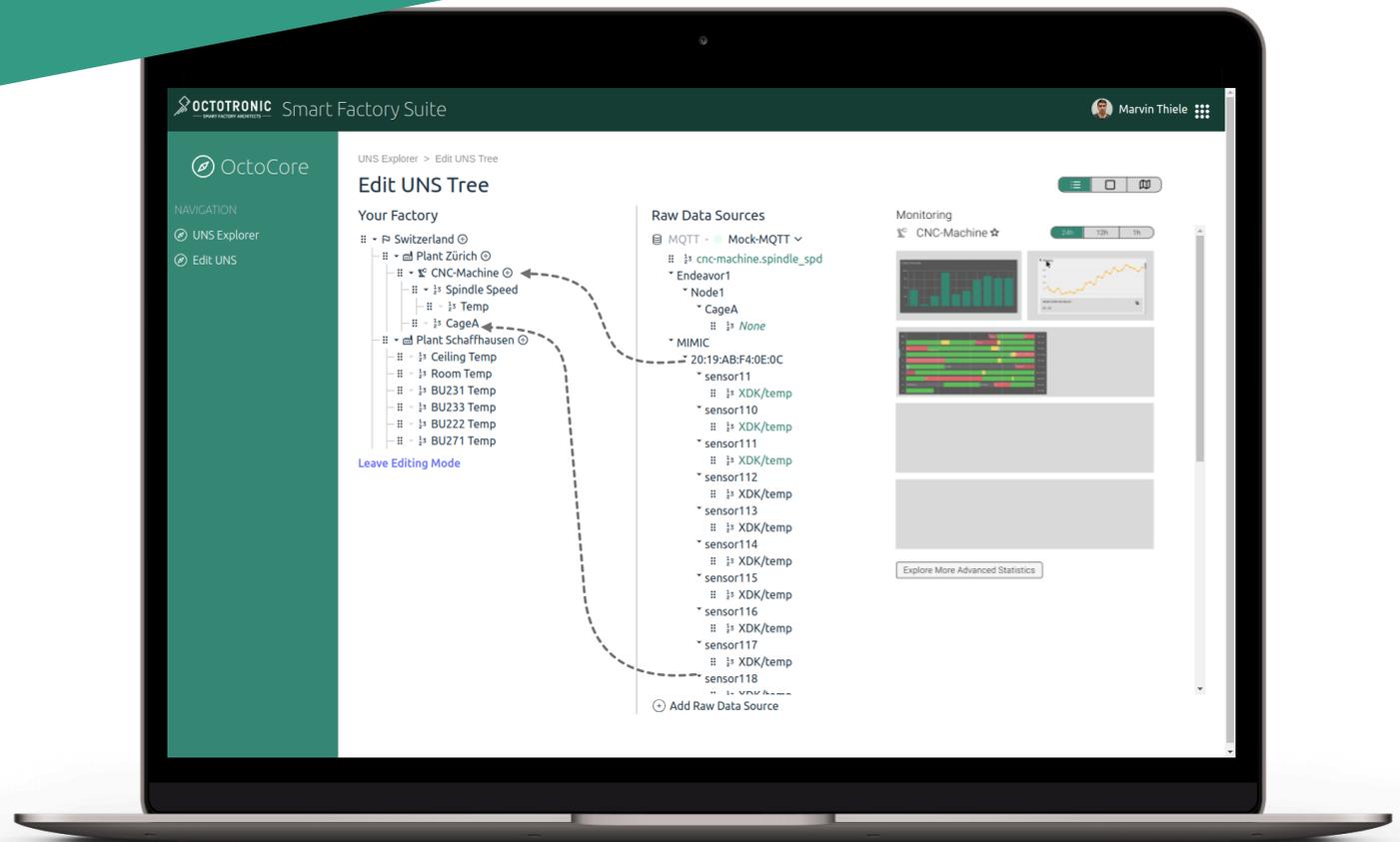
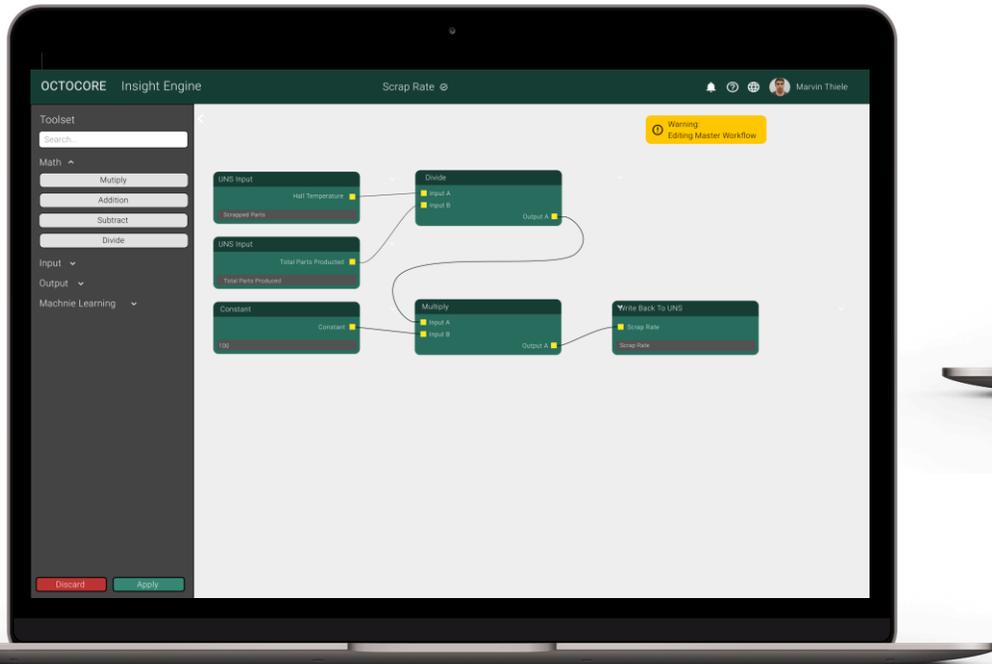
- + air conditioning
- + process air
- + E power
- Area Machining
- + Linie Alu
- + Linie Drill
- Linie Surface
- + Linie polish

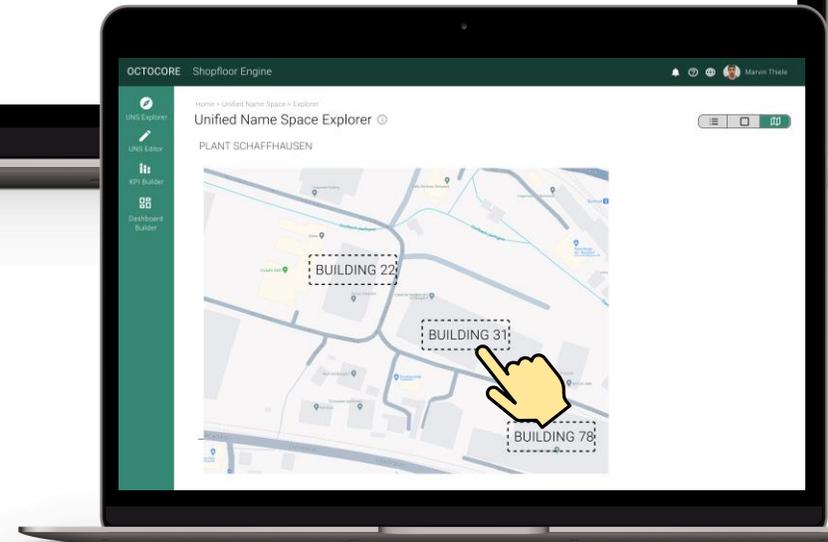
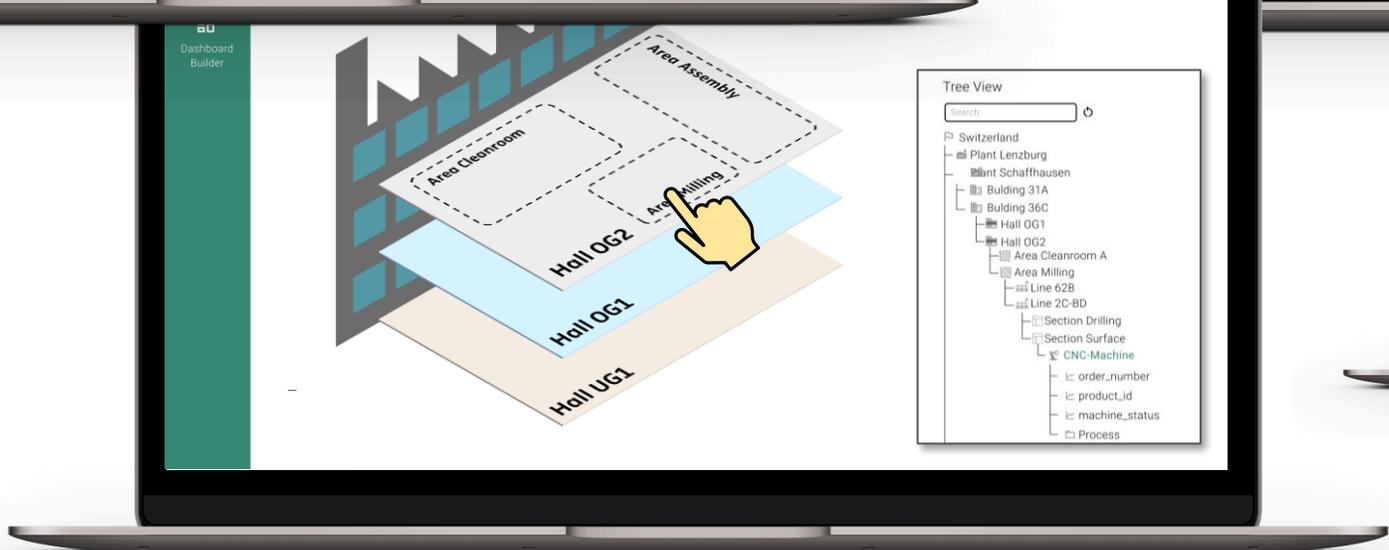
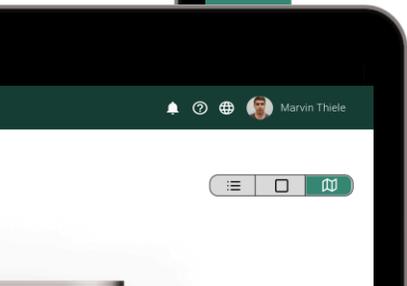
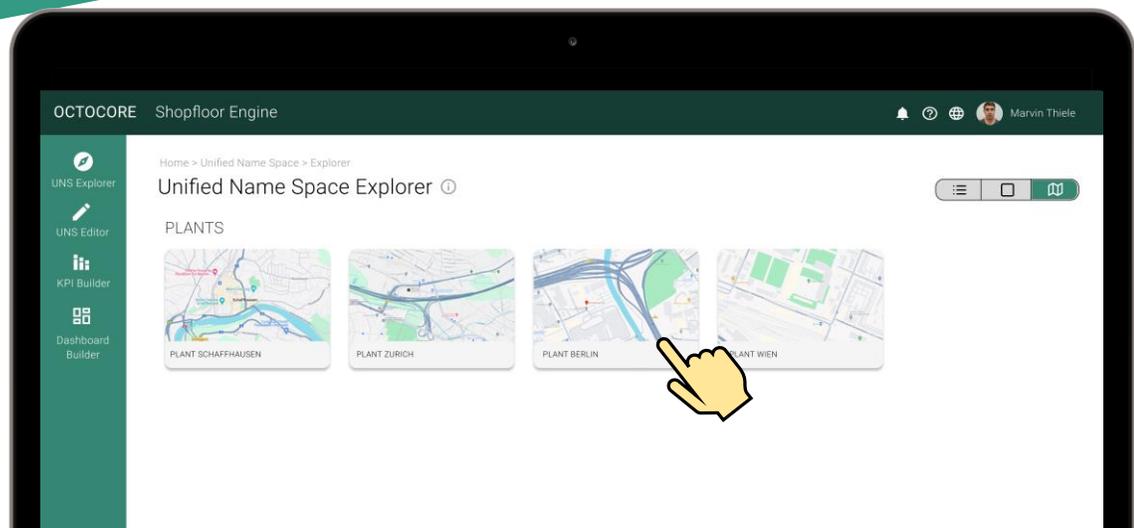
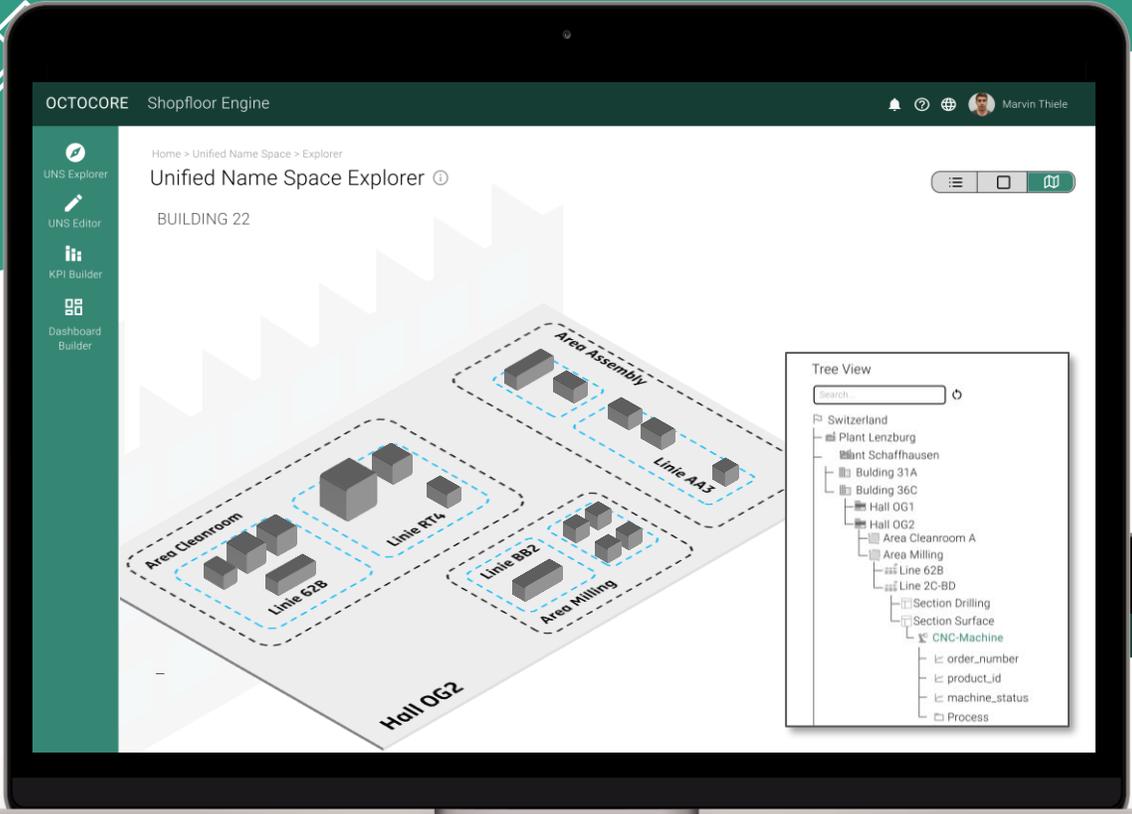
- + air conditioning
- Env. conditions
  - + Room temperature
  - + Room humidity
- + E power
- Linie Surface
  - + DMC 003
  - + Mazak 001
  - + Haas px
  - + Trumpf vp
  - + Trumpf vp



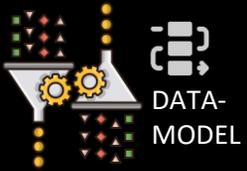








**Konnektivität**



DATA-MODEL  
EDGE

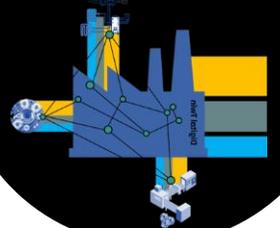
**Data Analytics**



**Smart Factory Architektur**



**Digital Twin**



**Daten Vernetzung**



DATA LAKE HOUSE

**Computer Vision & ML**



**ABB**

**BELIMO**

**SWISSFACTORY GROUP**

**SCHURTER**  
ELECTRONIC COMPONENTS

**DATWYLER**

**KION GROUP**

**SIG**

**VAT**

**COOP**

**Abbott**

**SIEMENS +GF+**

**Roche**

**FESTO**

**THALES**

**YPSOMED**  
SELFCARE SOLUTIONS

**BIOTRONIK**  
excellence for life

**FFT**

**B**

**HUBER+SUHNER**

**Metrohm**

**SYNTEGON**  
PROCESSING & PACKAGING

**BMW GROUP**

**Mercedes-Benz**

**Audi**



# OCTOTRONIC

— SMART FACTORY ARCHITECTS —

**50+**  
Projekte  
Smart Factory

**70+**  
Jahre  
Shopfloor Know-how