

Use Cases and Applications from the Machinery Industry

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National Headquarter
Chicago



European Headquarters
Munich from 2026



Global Headquarter
Tokio

- + 113 sales and service locations
in 43 countries
- + 16 production sites
- + More than 12,000 employees
with 59 nationalities
- + 150,000 customers

PRODUCTION SITES

DMG MORI

ON SITE WORLDWIDE

America



Germany



Europe



China



Japan



Our largest fields of activity

Sales revenues in fiscal year 2022/23

Machine tools for flexible sheet metal processing



Sales revenues 2022/23

3,0 bn. €

+32.8 %

Laser technology for industrial manufacturing and science



Sales revenues 2022/23

2,1 bn. €

+28.0 %

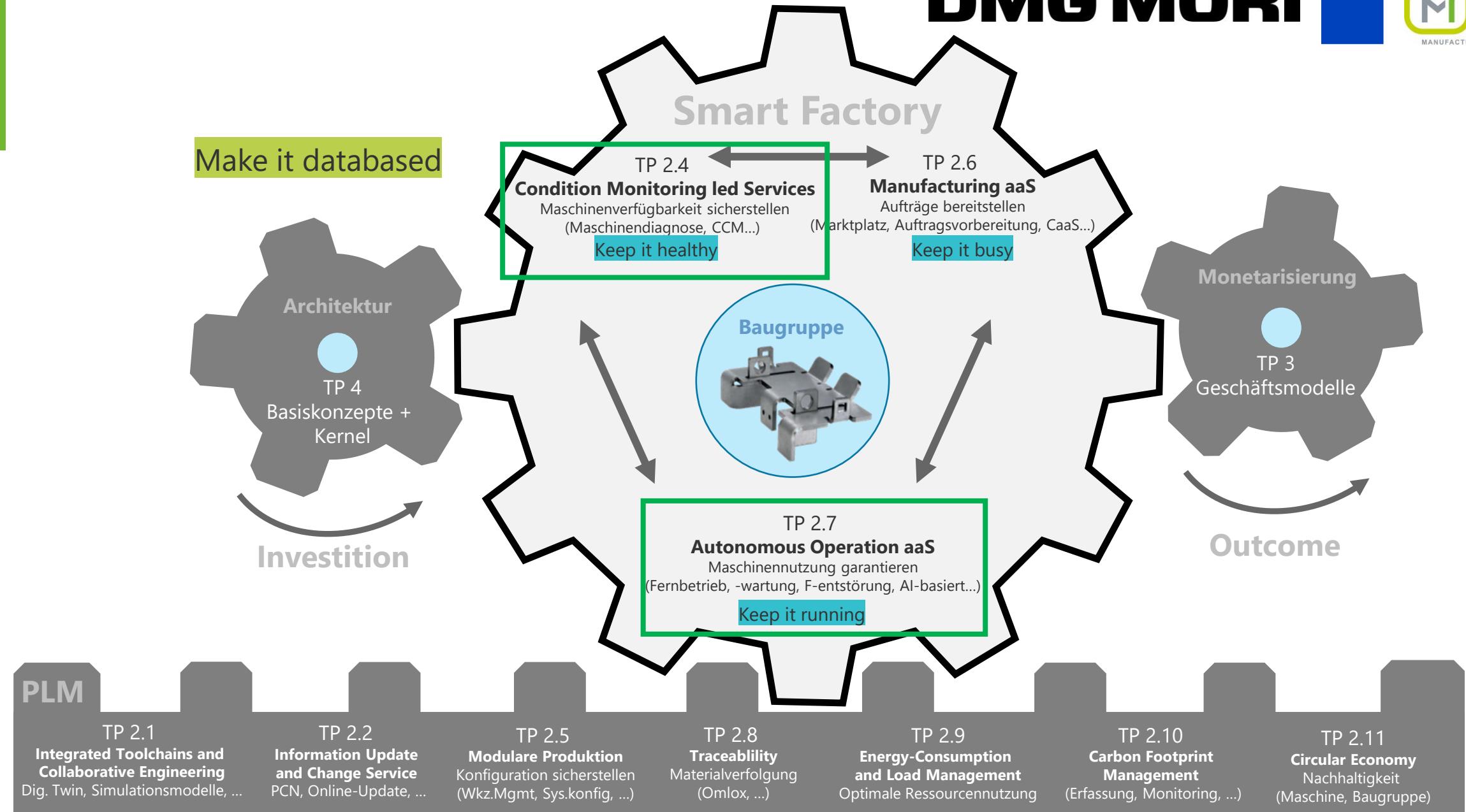
Laser systems for semiconductor lithography



Sales revenues 2022/23

1,0 bn. €

+22.2 %



Use Case 2.7 Autonomous Operation-as-a-Service Specific Aspects



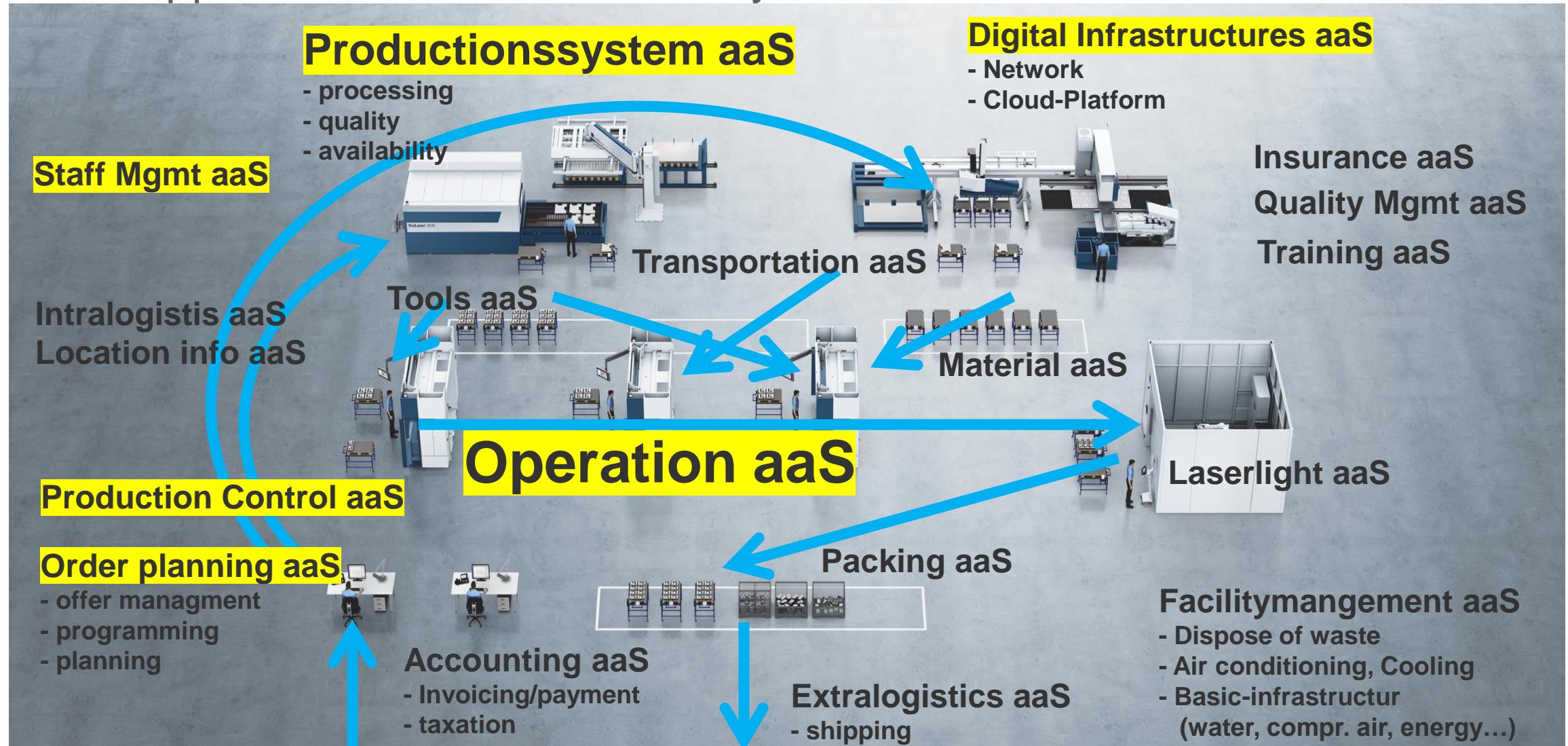
Challenges:

WS 1: Plug & Play Interconnectivity of the production systems!
Simple integration of new sensors and video systems!
Management of the software components on the shop floor!

WS 2: Capabilities for remote **process monitoring** and **control** as the basis for autonomous operation!
Operator panel as an assistance system to reduce complexity for human users!

WS 3: Knowledge management to document the experience gained in the operation!
AI algorithms to recognise and automatically implement options for action!

XaaS-approach in the Smart Factory - Production as a Service

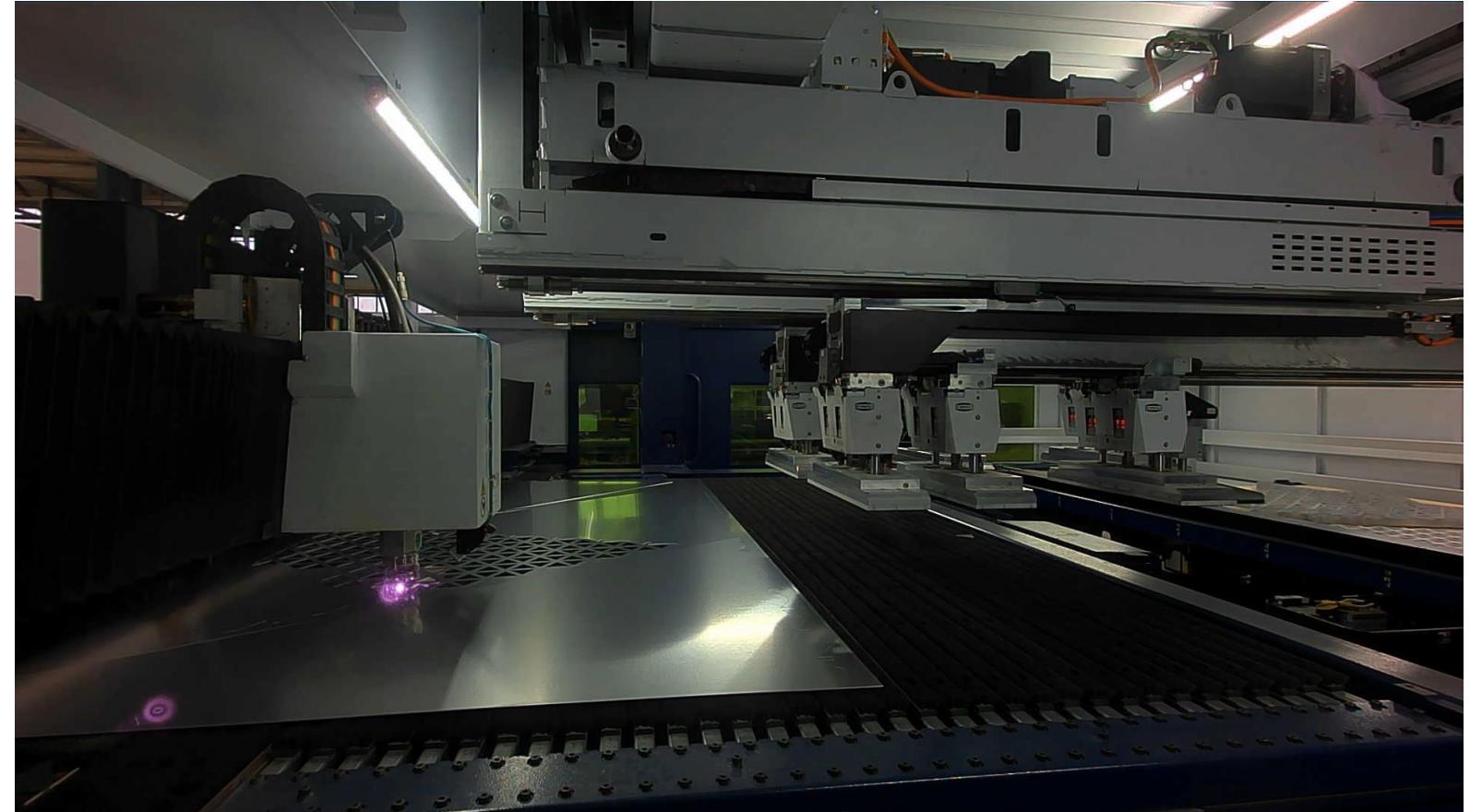
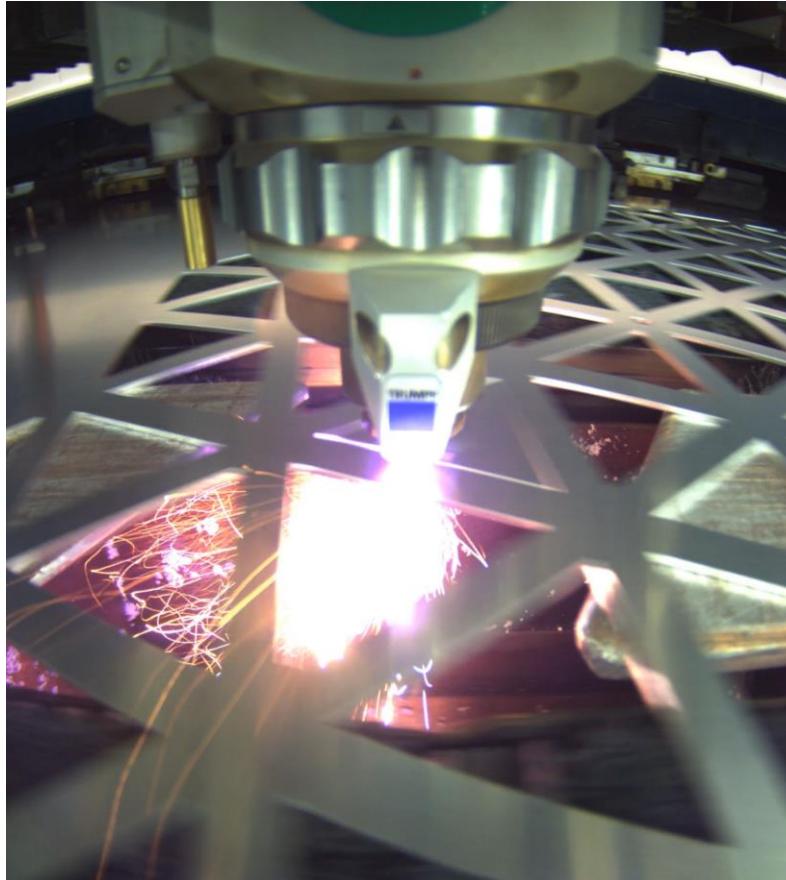


Autonomous Operation as a Service

Production planning – Programming – Production process incl. supervision – elimination of fault....



Visual Insight - Event Based Videos



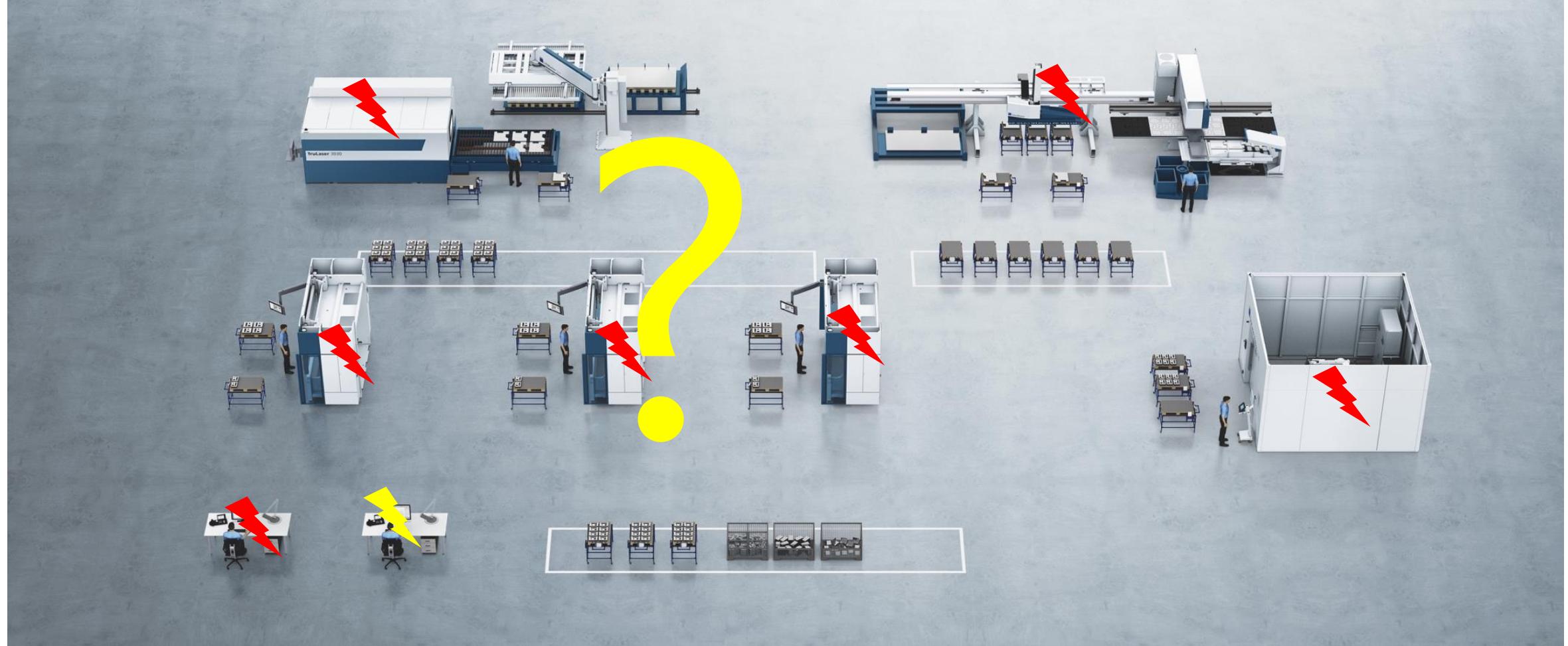
Heterogeneity at all levels

Customer Perspective

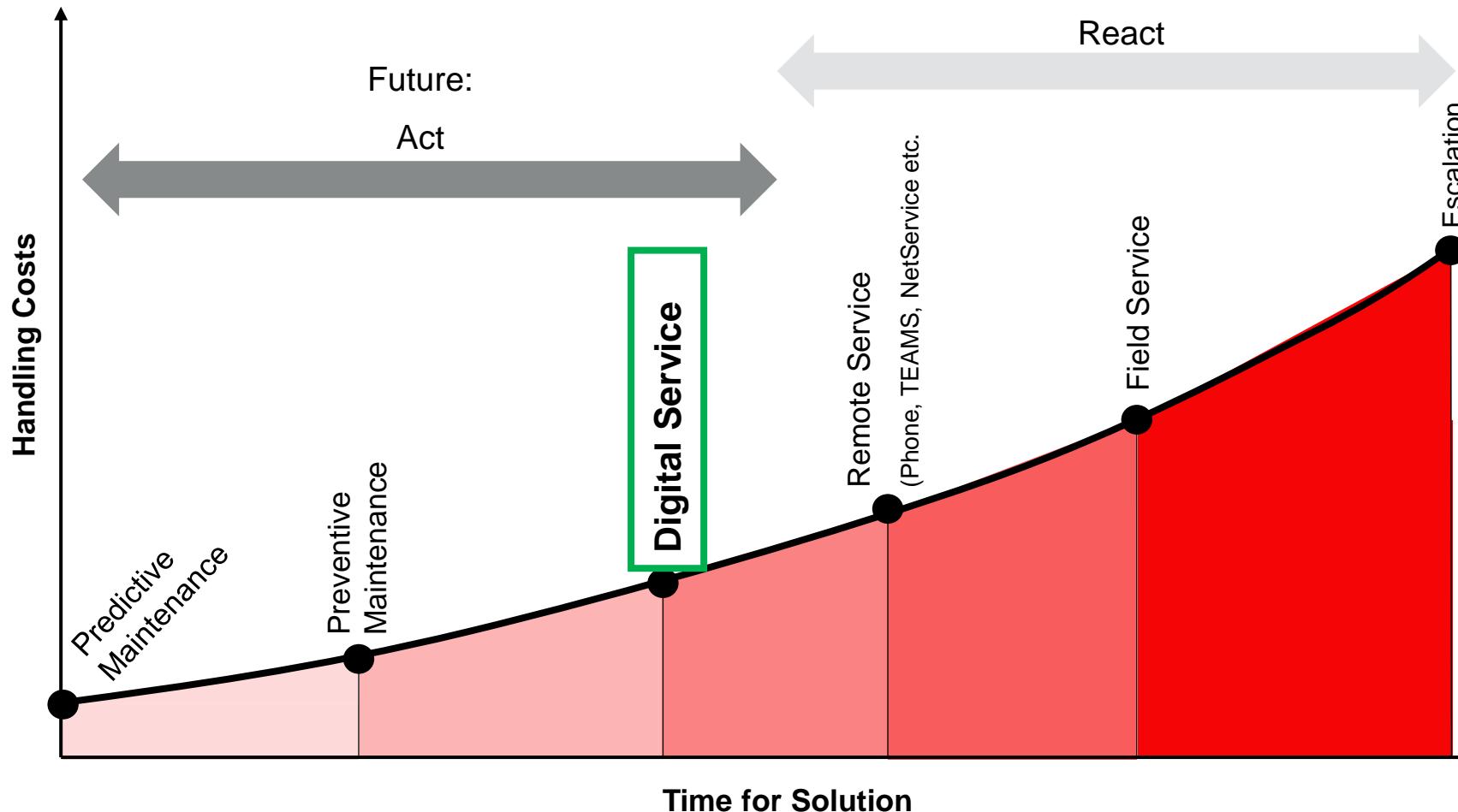


Smart Factory – Needs Software

Where is the place to install Factory Software?



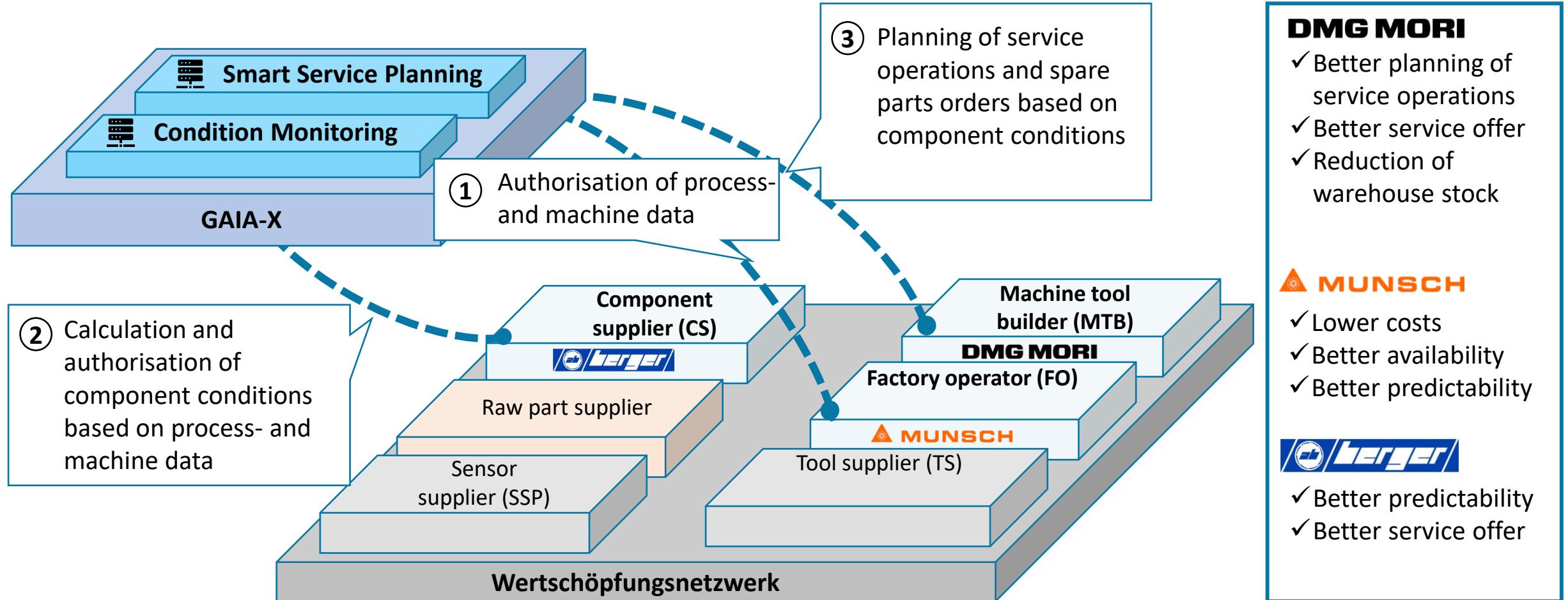
Condition Monitoring led Services



Motivation

- + Reduce downtime
- + Reduce unplanned Service Operations
- + Digitize Remote Service
- + Increase global and local availability

Collaborative Condition Monitoring & Smart Service Planning



Thank you for your attention!

Questions?