

PLANNING

DMG MORI PLANNING



DMG MORI

INTEGRIERTER DIGITAL-SHOPFLOOR-PROZESS

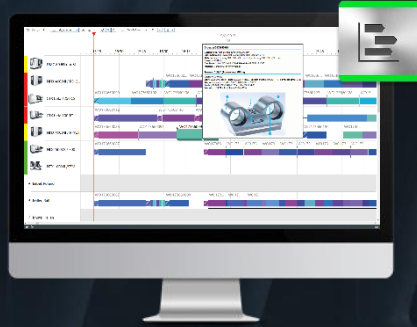
PLANNING

PREPARATION

PRODUCTION

MONITORING

SERVICE



PRODUCTION PLANNING
Vollintegrierte Produktions-
planung und -steuerung

Früher mit Excel,
heute integriert mit
DMG MORI PLANNING &
CONTROL.



PRODUCTION FEEDBACK
Direktes Feedback zum
aktuellen Produktionsstatus



PRODUCTION COCKPIT
Maschinen- und Prozessdaten
in Echtzeit



BEISPIEL
DIGITAL FACTORY
Flexible Produktionsplanung
gegen begrenzte Kapazitäten

PLANNING

PRODUCTION

MONITORING

PRODUCTION PLANNING



Dynamische Planung der Fertigungsaufträge

- + Automatische und manuelle Auftragsplanung
- + Planung multipler Ressourcen
- + Einsatz unterschiedlicher Optimierungsstrategien
- + Visualisierung von Kapazitätsreserven

PRODUCTION FEEDBACK



Fertigungssteuerung & Rückmeldung in Echtzeit

- + Überblick über Auftragseingang an Maschinen und Arbeitsplätzen
- + Unmittelbare Rückmeldungen von Störungen
- + Aktuelle Statusberichte in jedem Prozessschritt

PRODUCTION COCKPIT

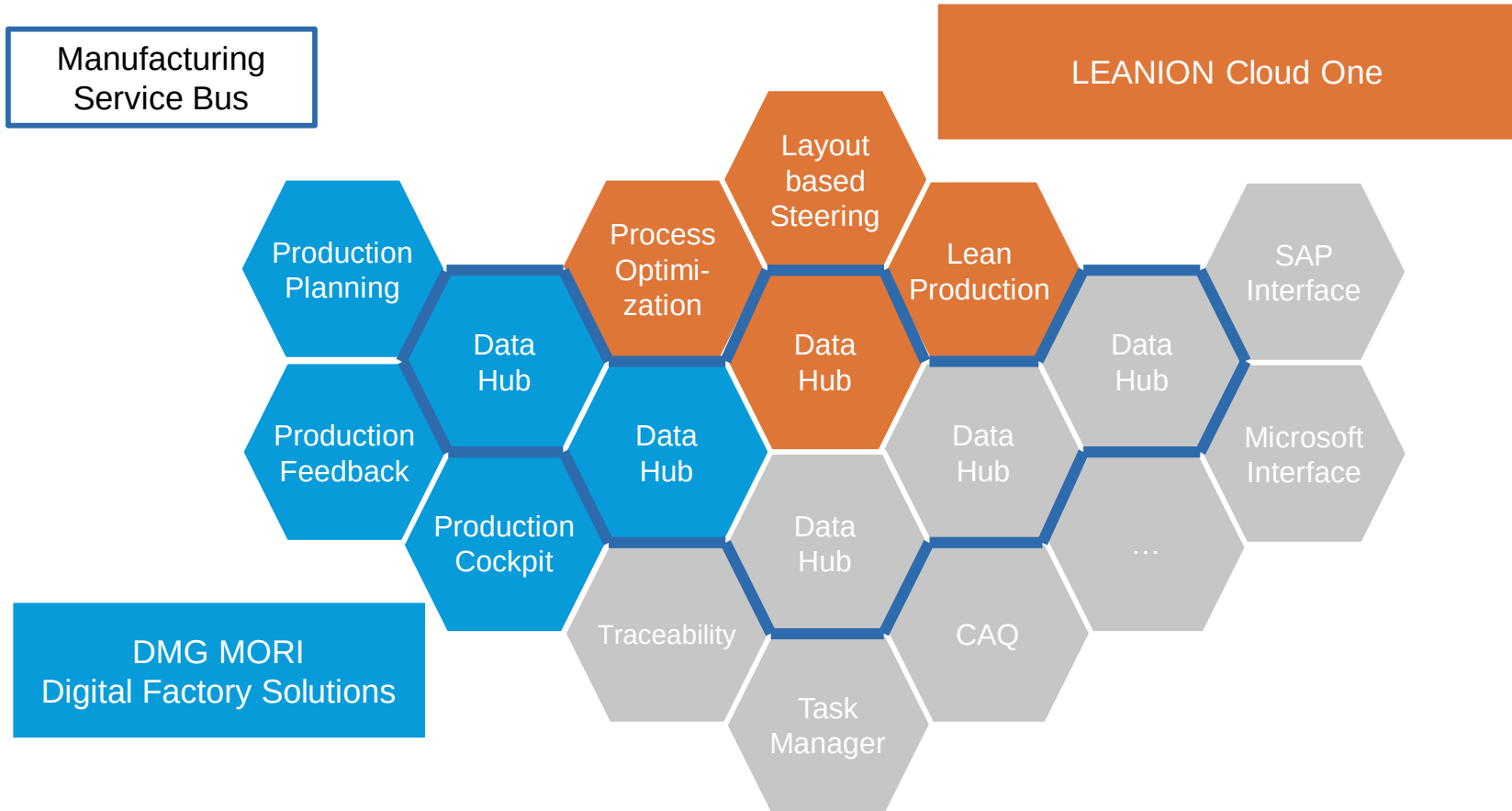


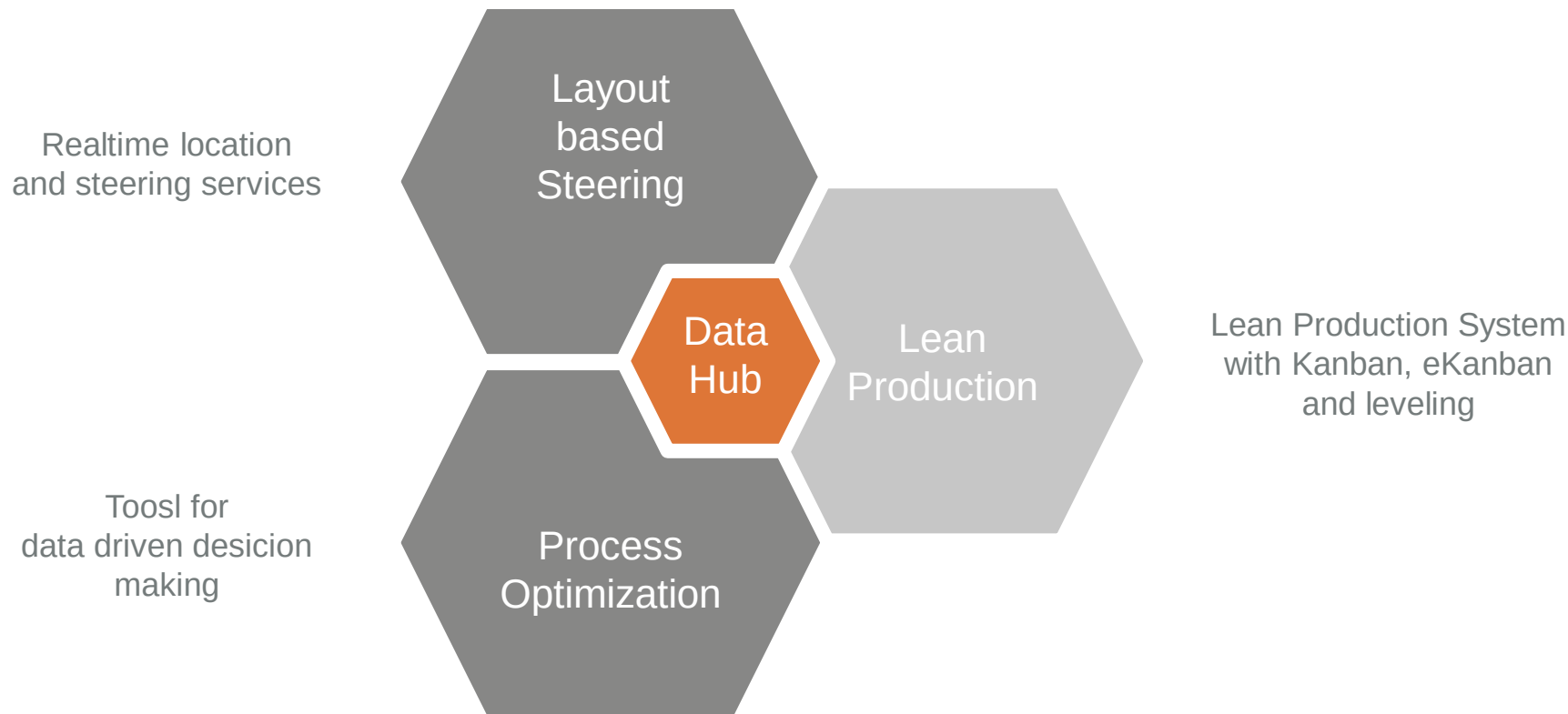
Aktueller Fertigungsstatus im Überblick

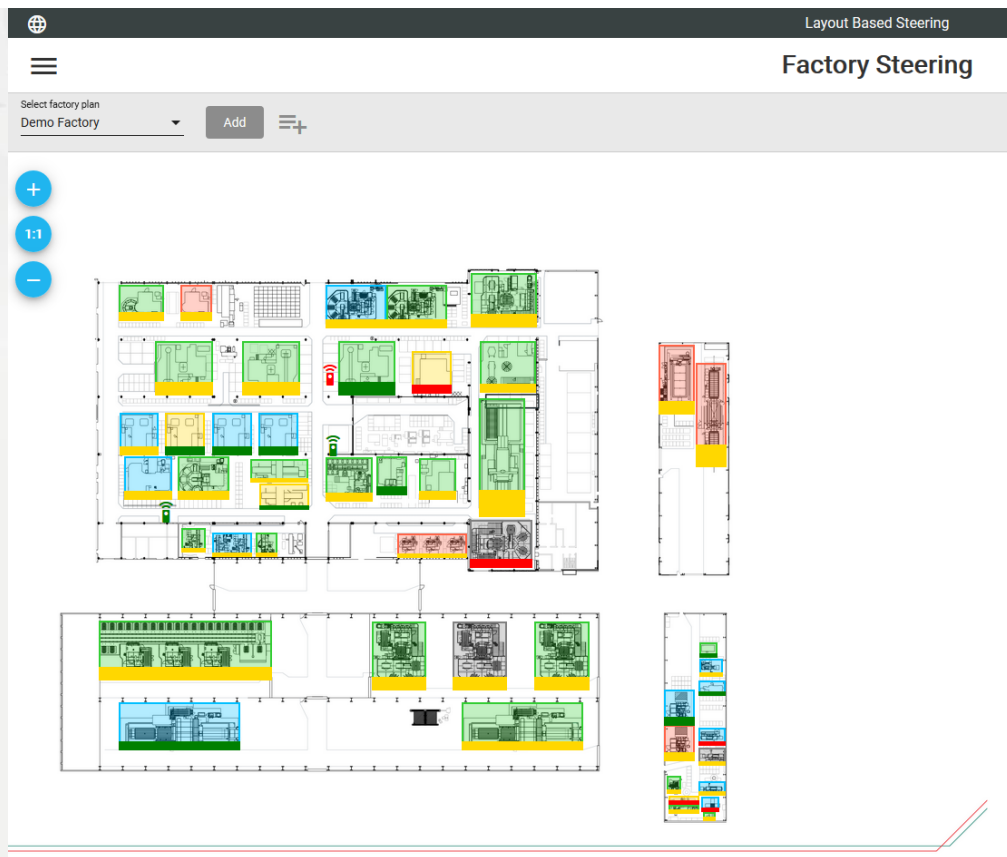
- + Visualisierung von Maschinen- und Prozessdaten
- + Standardisierte und personalisierte Ansichten
- + Programmierschnittstelle für neue Dashboards und Widgets

REALTIME STEERING & DATA DRIVEN DECISIONS

Part of DMG Digital Factory



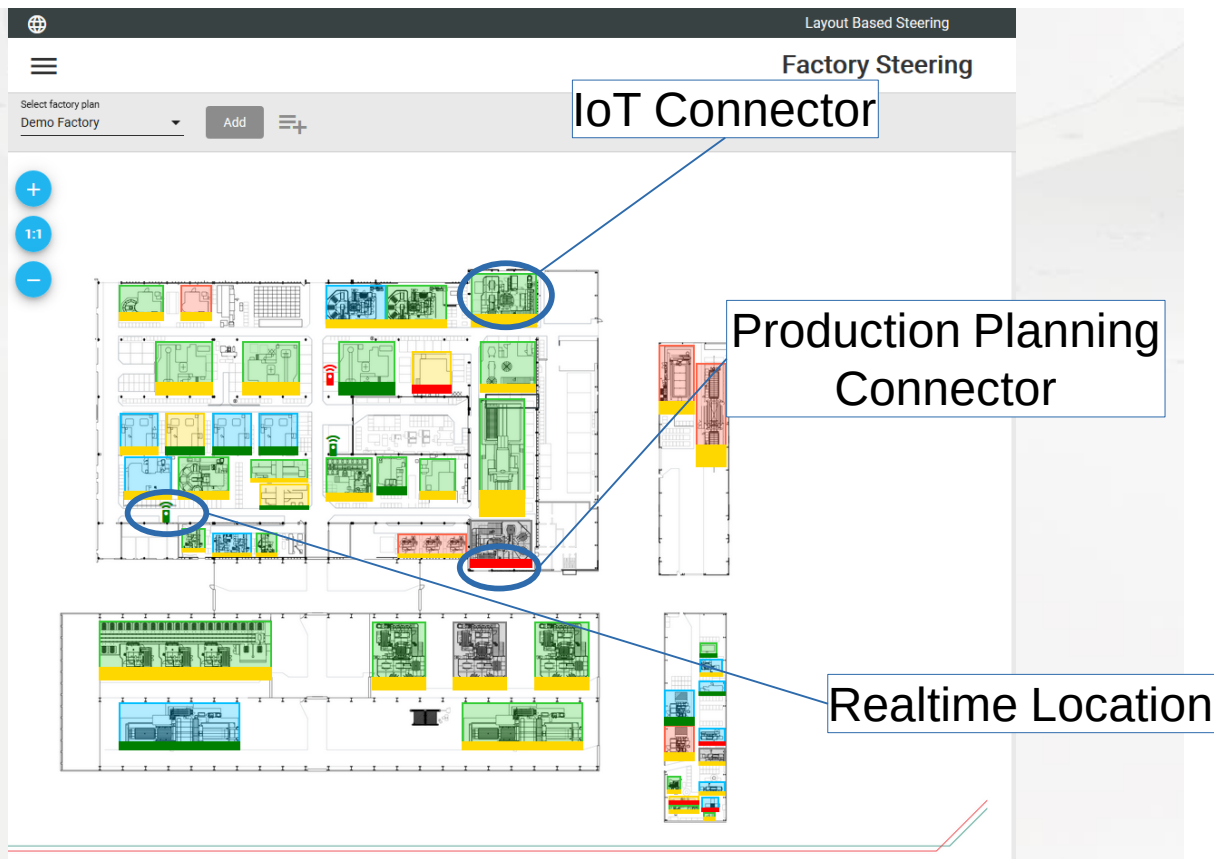




REALTIME STEERING

Realtime production information displayed in 2D Factory Map

- + PERFORMANCE of machines, assembling, ...
- + QUALITY of products, processes, ...
- + LOGISTICS like transport ways, storage areas, ...
- + TOOL management, finding, ...



HOW DOES IT WORKS?

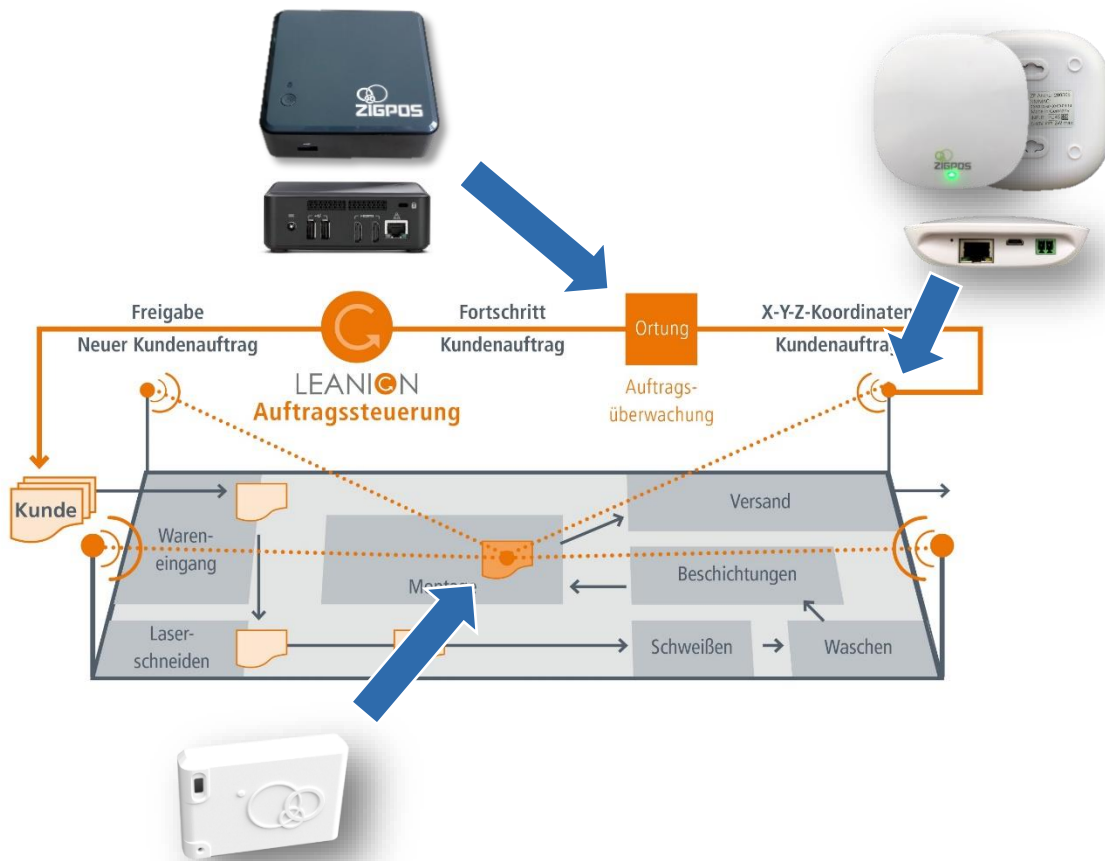
REALTIME DATA FROM MACHINES
AND MES needs three parts:

- + IoT Connector for machines
- + Manufacturing Service Bus with interfaces to IoT and Production Planning connectors
- + LAYOUT BASED STEERING SERVICE for displaying the located information

HOW DOES IT WORK?

REALTIME LOCATION AND STEERING needs for parts:

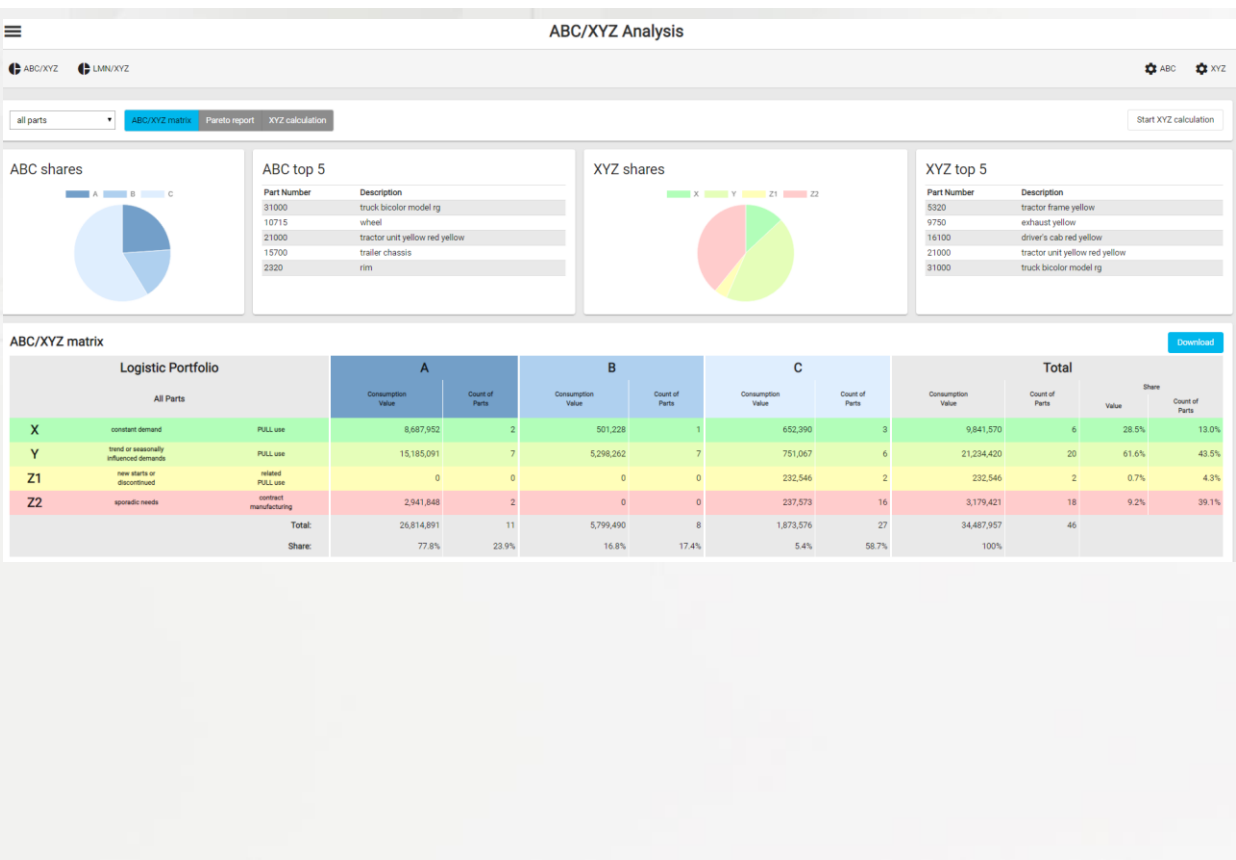
- + RECEIVER located in the factory
- + TAG combined with the transport box or product
- + GATEWAY which transfers the location information
- + LAYOUT BASED STEERING SERVICE for steering or location

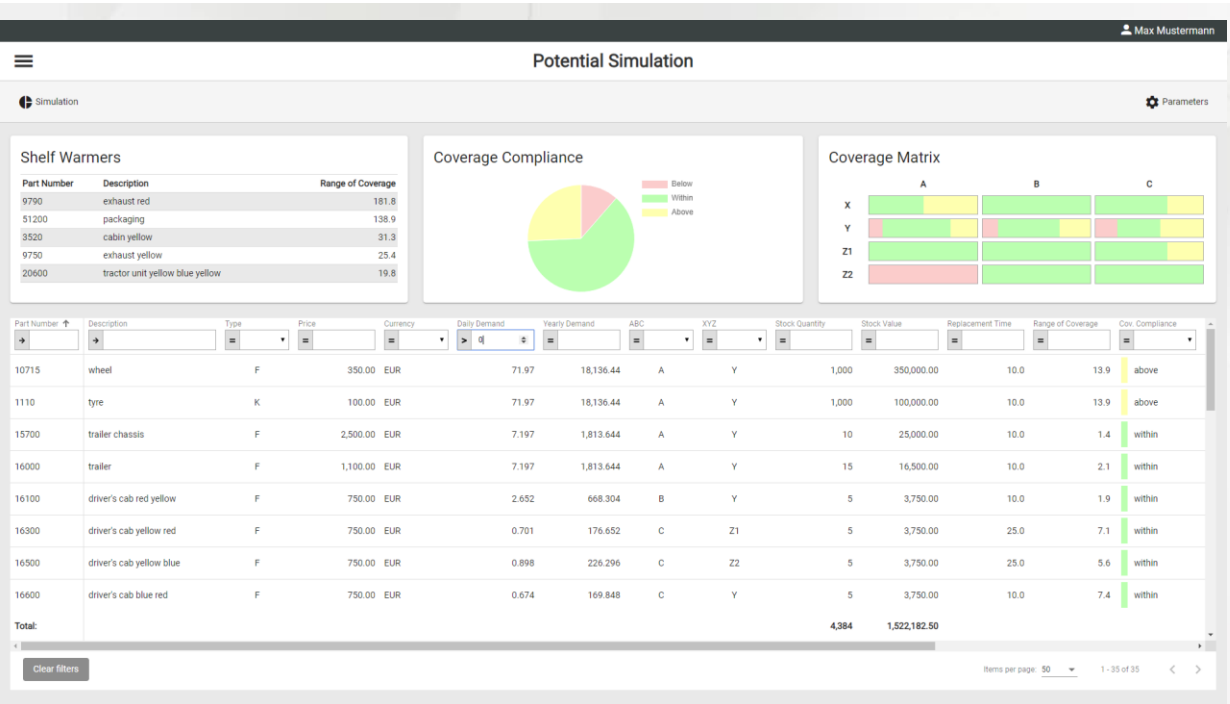


MATERIAL STRATEGY

Decision maker of material strategy for disposition, production and logistics

- + ABC free value categorizing
- + XYZ free demand categorizing
- + LMN free weight/size categorizing
- + Pareto report
- + Simulation

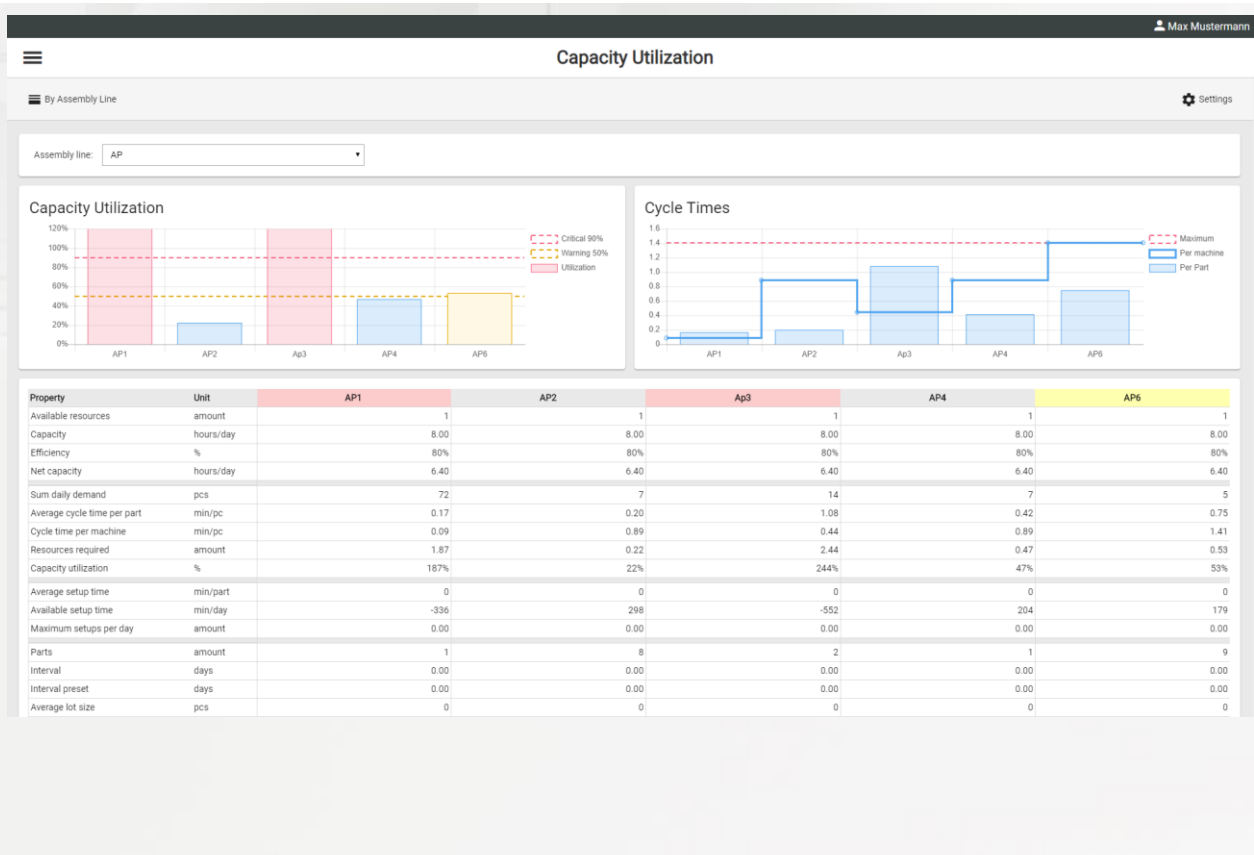




POTENTIAL SIMULATION

Simulation of production scenarios on the ABC/XYZ classification

- + Cycle times for each class
- + Replacement times for each class
- + Evaluation of current stocks
- + Display of undersupply and surplus materials
- + Calculate the possible savings for given scenario



CAPACITY UTILIZATION

Identifying of bottle necks in the production lines

- + Import of production lines, machines and manual operating workplaces
- + Calculating the cycling time (pacemaker)
- + Calculating the needed cycling time of each resources
- + Show the capacity utilization of each resource
- + Free optimization of parameters

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