

Digital tools – AGV, MES, Mobile maintenance Lernreise Station 5

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Our tools following the i4.0 strategy

1

Digital Supply Chain and Logistics



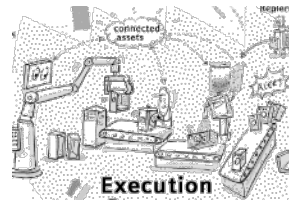
Digitize business processes and increase supply chain transparency in order to achieve improved productivity and services

AGV



2

Smart Operational Excellence



Achieve cost savings along our value-streams and increase productivity

In Factory Programming (SMM programming)



Mobile Plant Maintenance V2



Worker support



Connected Shop Floor Mngt. and Operations

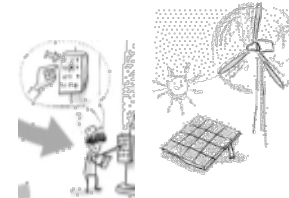


Big Data / Data Mart



4

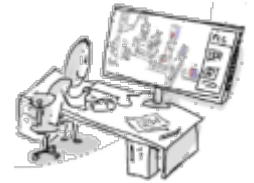
Environment & Safety



Increase work safety for our employees with latest technology & reduce carbon foot print

5

Digital Factory Planning

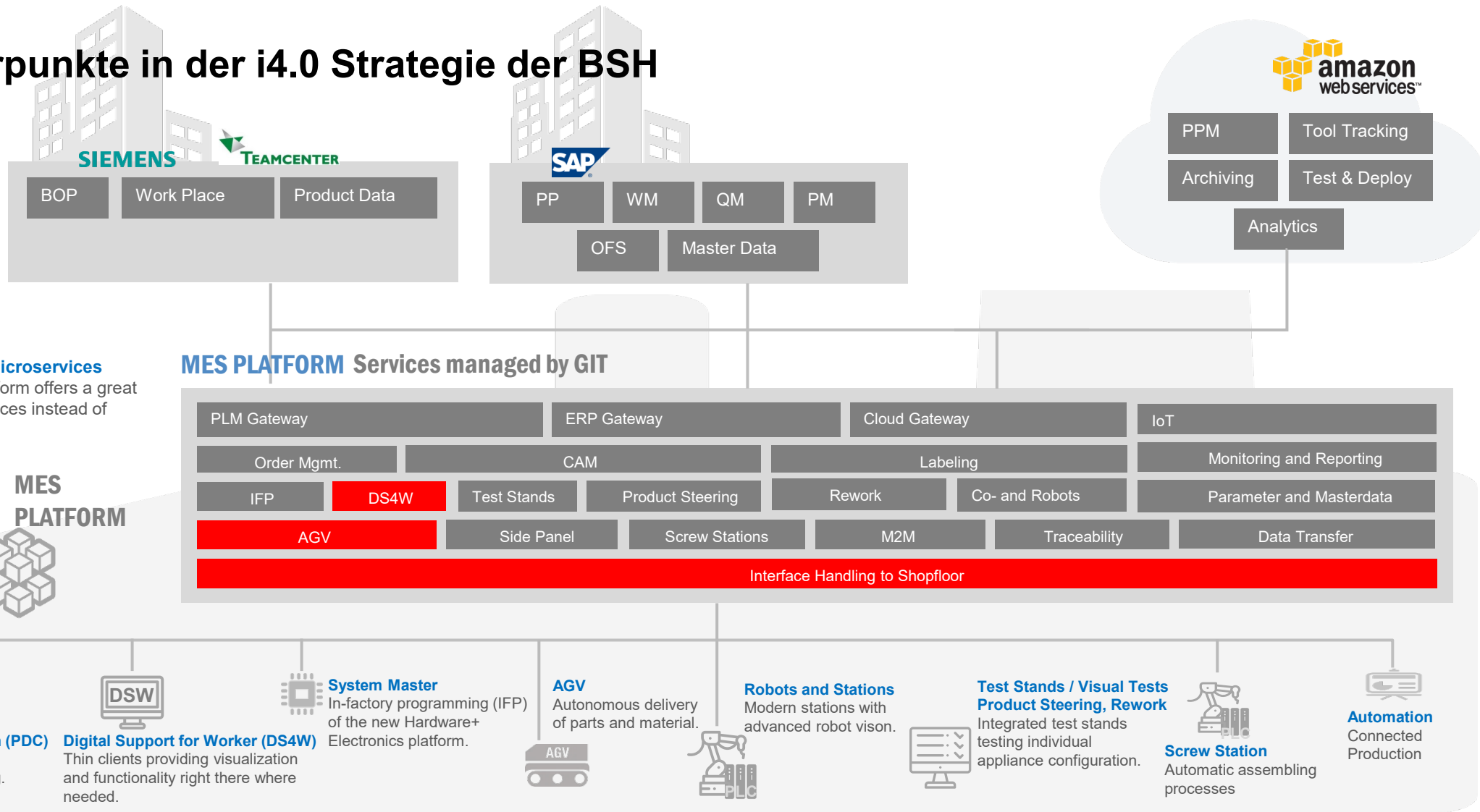


Support factory and ergonomic work place planning with digital tools

PLM to MES (e.g. Support for Worker Data Supply)

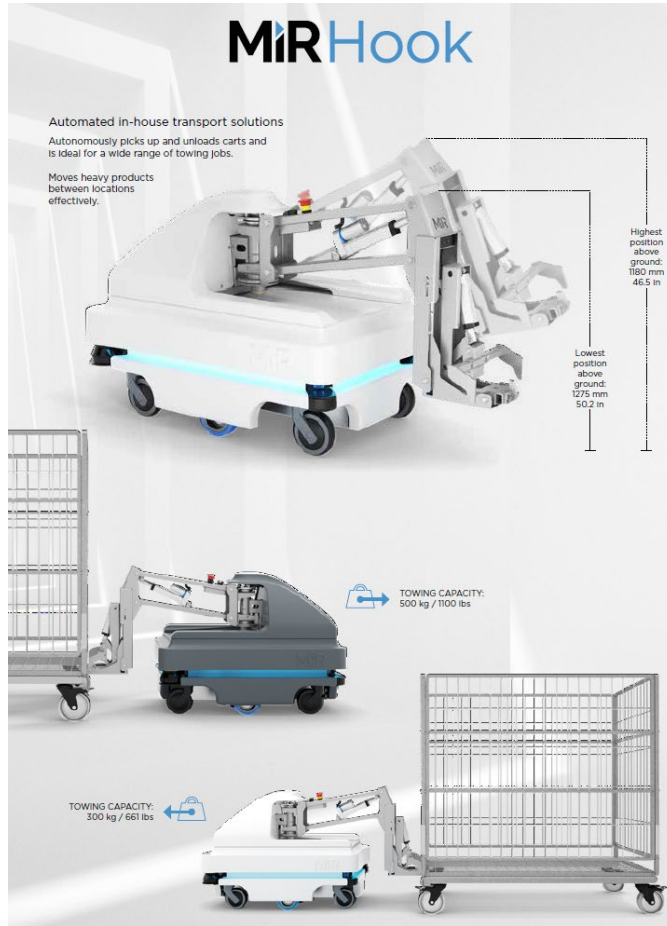


Schwerpunkte in der i4.0 Strategie der BSH

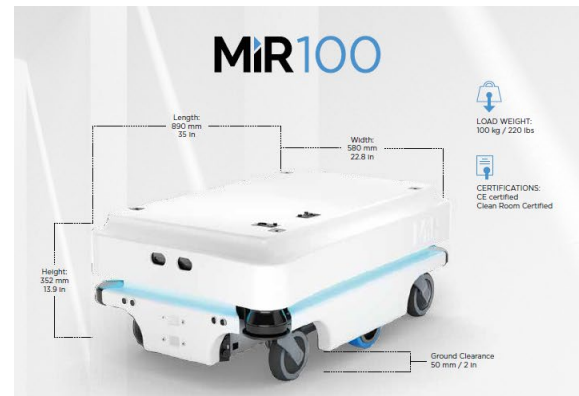


AGV – Unsere Lösung für autonomen Materialfluss

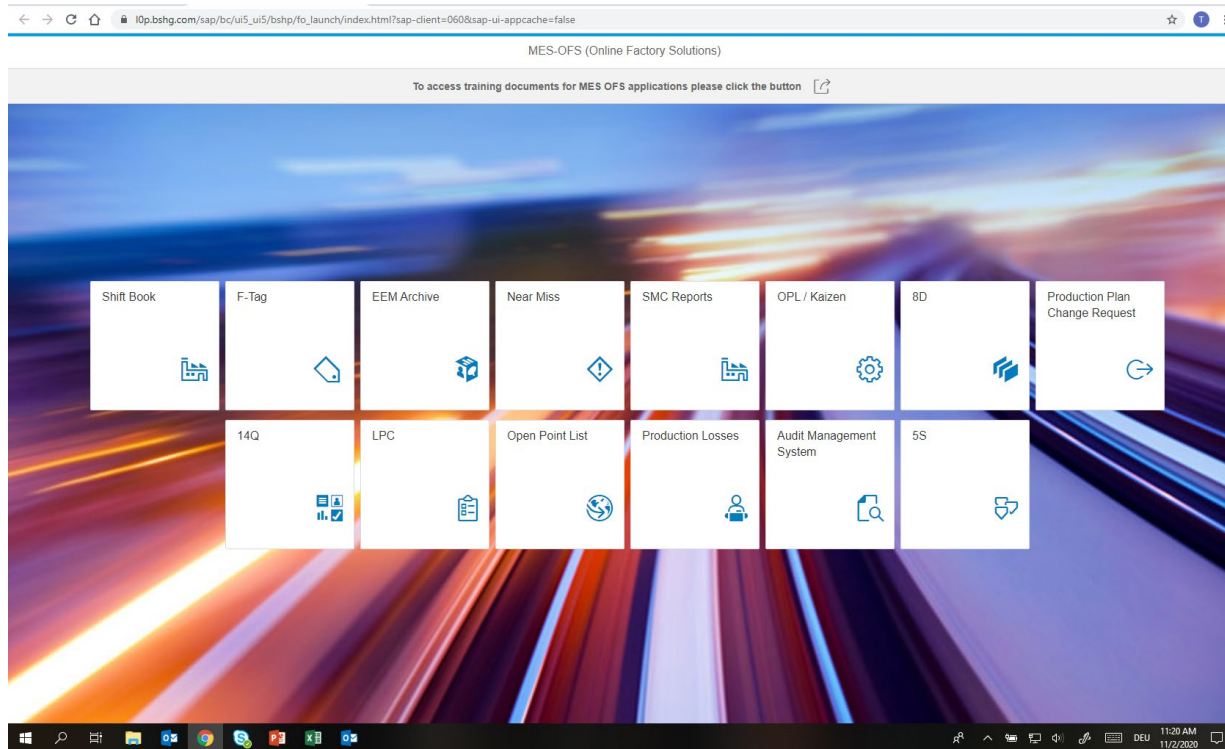
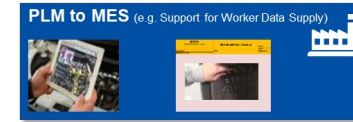
AGV



- Connectable in fleet management
- Different unloading positions
- For finished goods and material delivery to our assembly line



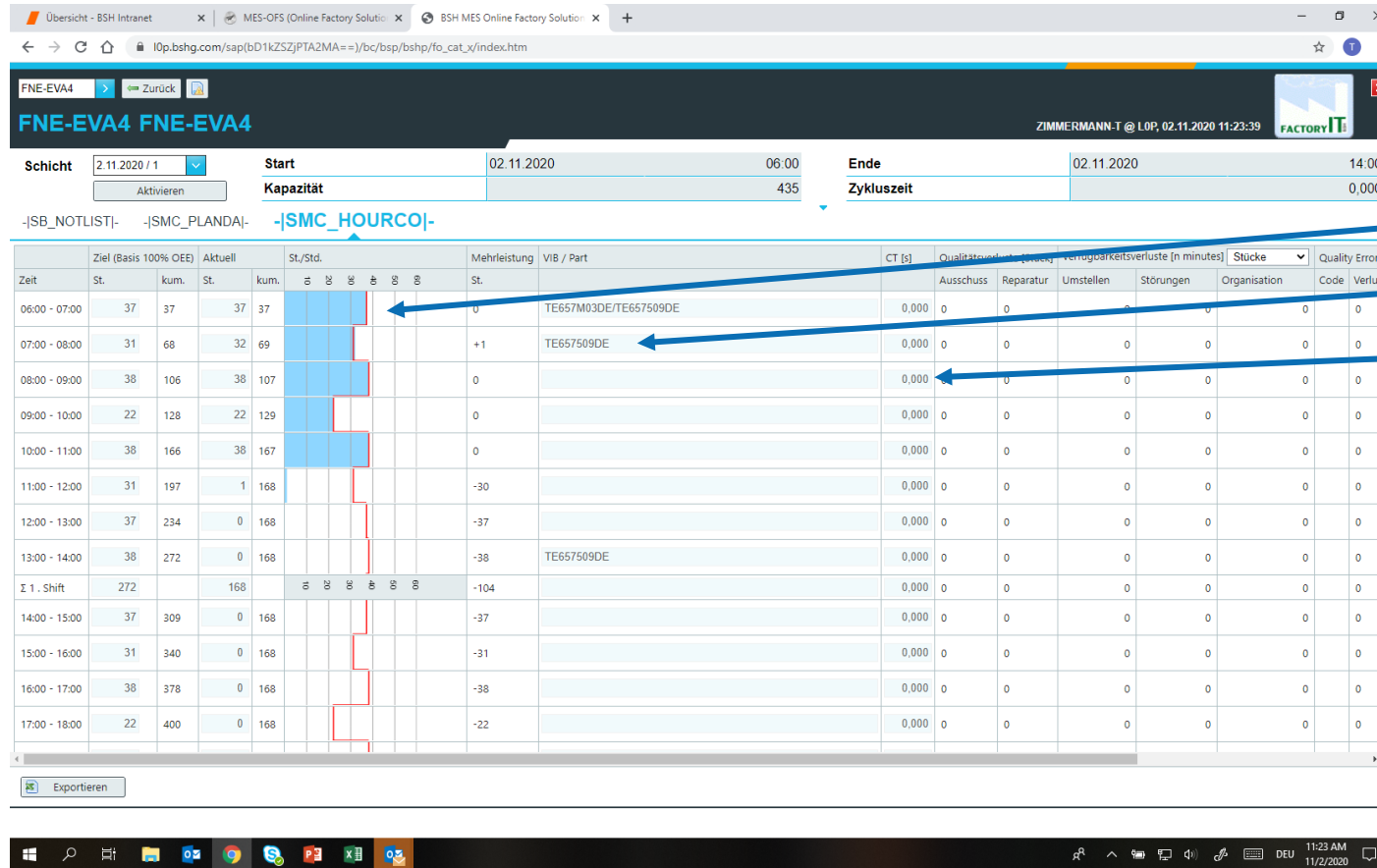
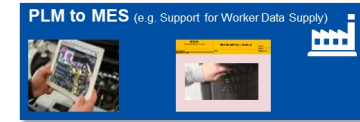
MES – Papierlose Produktion



Einstieg MES:

- Elektronisches Schichtbuch
- F-Tags & EEM
- Shopfloor management cycle
- Problem solving
- 14Q & Layered Process confirmation

MES – Elektronisches Schichtbuch

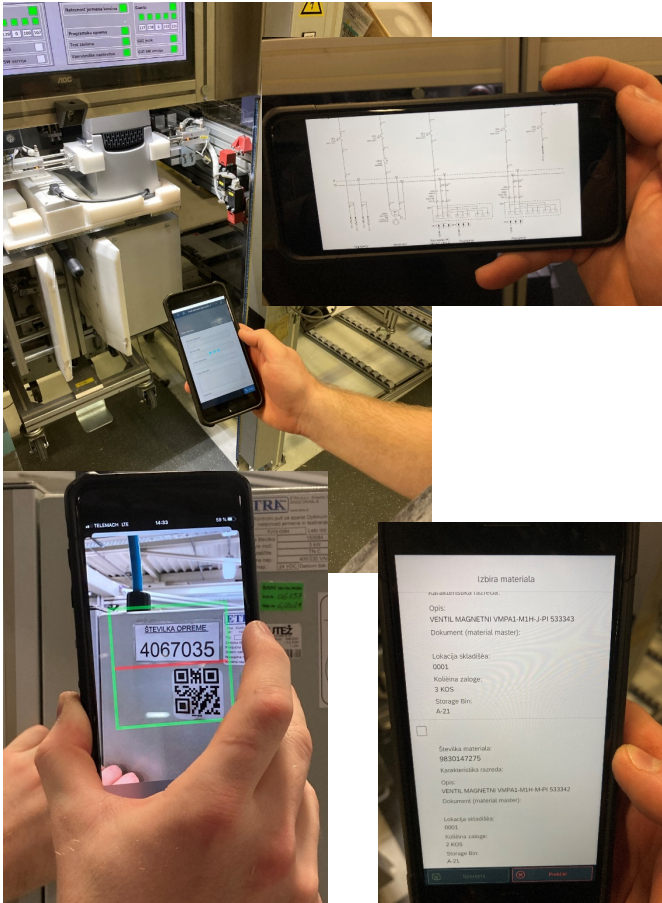


“Hourly counting” - Abweichung

Aktuelles Produktionslos

Grund Abweichung

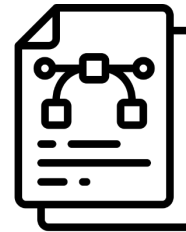
Mobile maintenance – Digitale Lösungen für die Instandhaltung



-15%
Diagnosezeit



- 40%
Wege



-10%
Dokumentation



-15%
Reaktionszeit