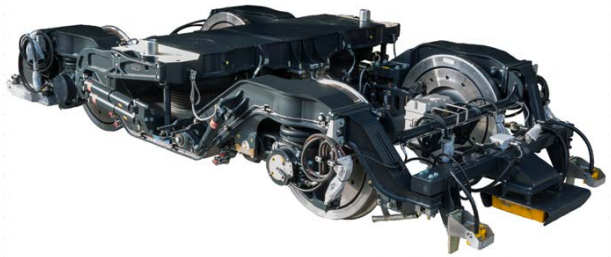
RFID
JOURNAL
VIRTUALLY
LIVE!
SEPTEMBER 30 - OCTOBER 1, 2020

With RFID to Transparency

Sebastian Kohl

M.Sc. in Process Engineering

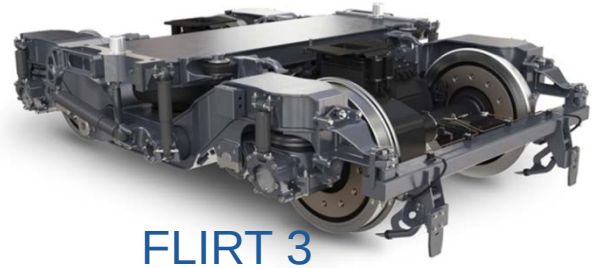
Winterthur- Competence Centre of bogies



SMILE
Trailer bogie

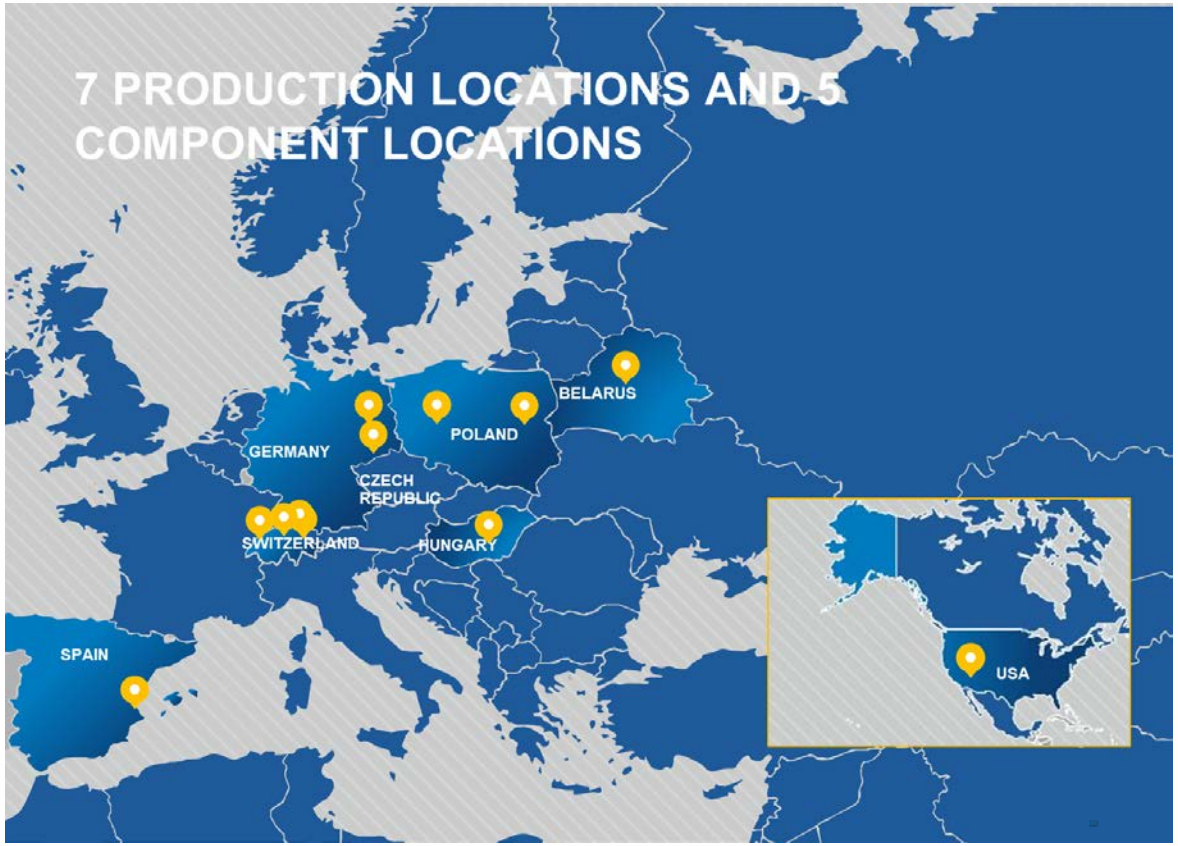
KISS
Trailer bogie

FLIRT X
Jacobs trailer bogie



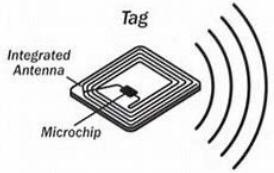
FLIRT 3
Motor bogie

Sights

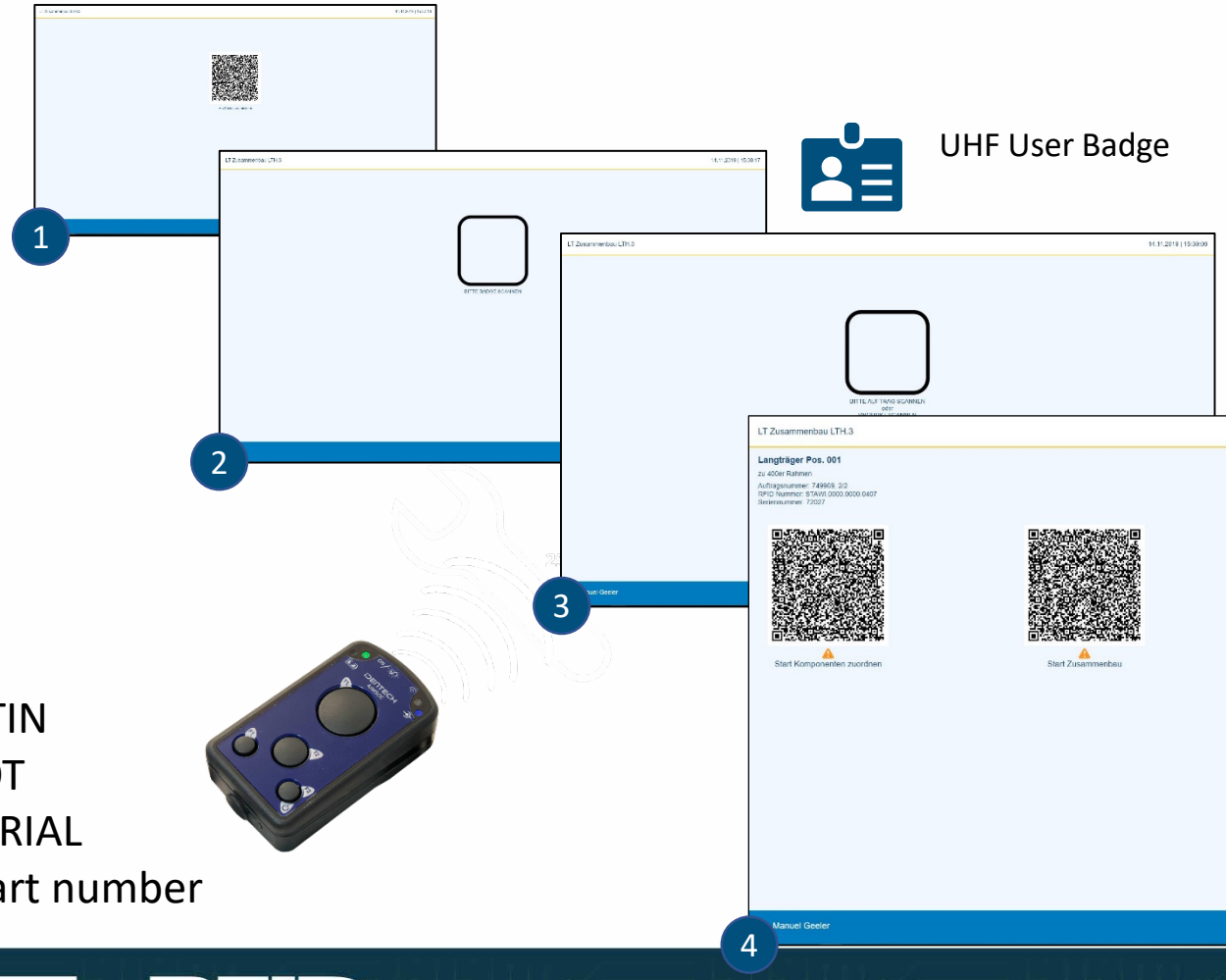

7 PRODUCTION LOCATIONS AND 5 COMPONENT LOCATIONS
BELARUS
POLAND
GERMANY
CZECH REPUBLIC
SWITZERLAND
HUNGARY
SPAIN
USA

SERVICE LOCATIONS
NORWAY
SWEDEN
RUSSIA
"Acting locally"
> 1200 Service employees
> 50 Service Locations
19 Countries
DENMARK
NETHERLANDS
UNITED KINGDOM
GERMANY
POLAND
FRANCE
SWITZERLAND
AUSTRIA
HUNGARY
SERBIA
ITALY
SPAIN
PORTUGAL
ALGERIA
TURKEY
USA

Traceability in Railway - GS1 as standard



Example of a screen – Procedure for the worker



UHF User Badge

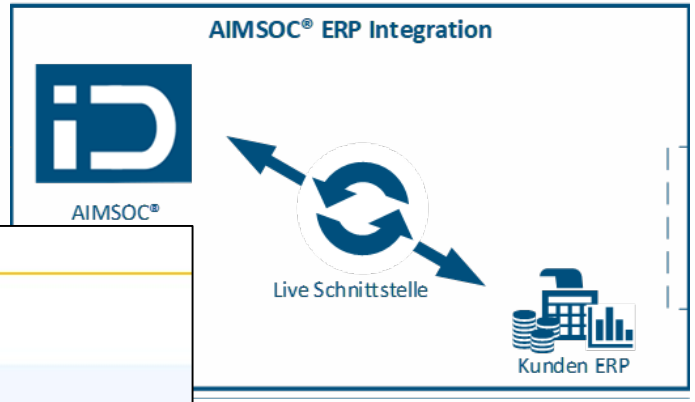
Master-Transponder

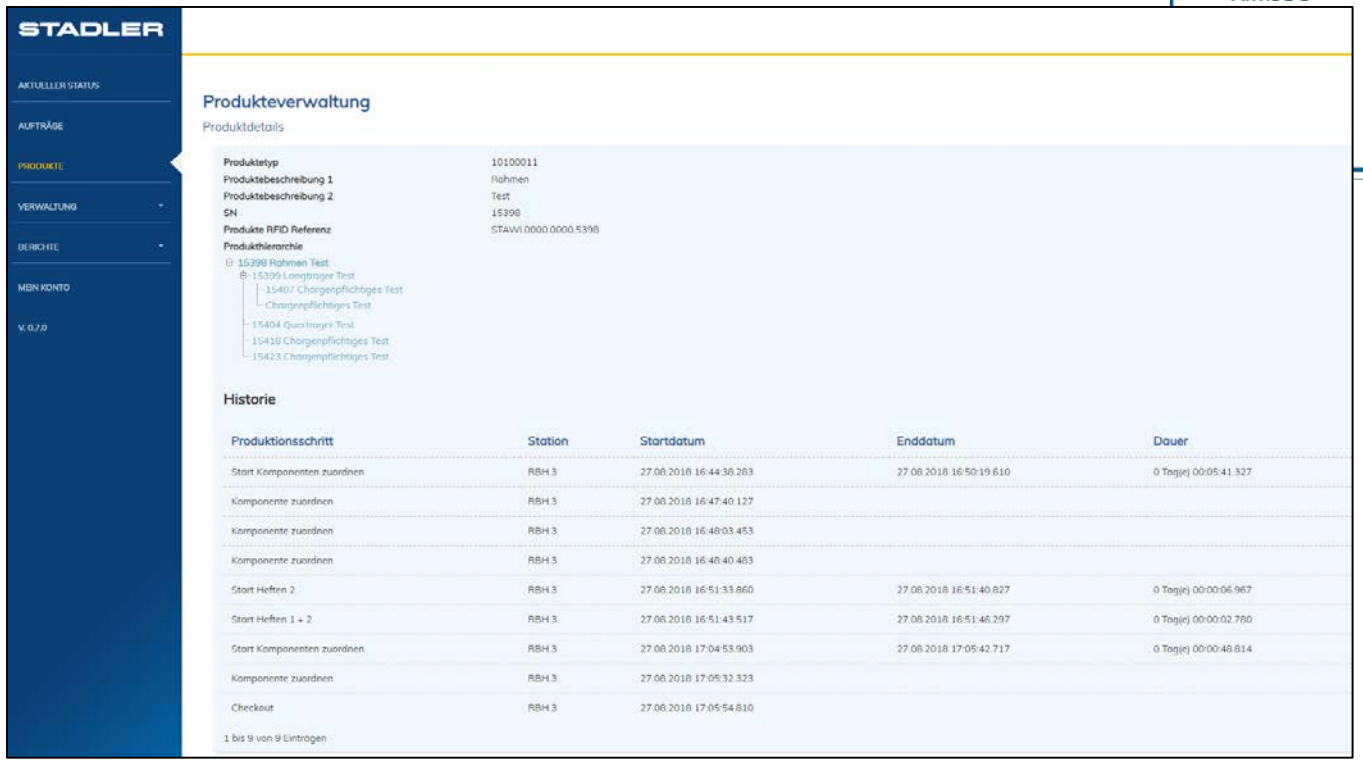
Order reference - Auxiliary transponder

STADLER
STAWI.0000.0000.0000
IDENTECH AIMSOC – www.identech.ch

AI 01 - GTIN
AI 10 - LOT
AI 21 - SERIAL
AI 90 – Part number

Data in the SQL-Database- Backend





RFID as Key for the machines

Benefits

1. Traceability live as Database – Future: EPCIS
2. Increasing of data quality due to scans instead of making notes
3. Eliminating of 10 manual process steps
   (no paper, no manuals, no notes, no component list, no stamping, no checking)
4. Less failures and costs due to digital instructions
5. Controlling the machines – Starting the program and setting up parameters
6. Direct input for ERP-based planning: Relieve the ressources of the ERP live
7. Data collection for Business Intelligence (Lead time, Process-time, OEE)

THANK YOU

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