



**Maximilian
MÜHLING**

DELMIA Industry Process
Consultant Manager
Dassault Systèmes

THE FUTURE OF MANUFACTURING: BRIDGING PLM AND MES FOR SEAMLESS INTEGRATION



AGENDA

Introduction

One Example

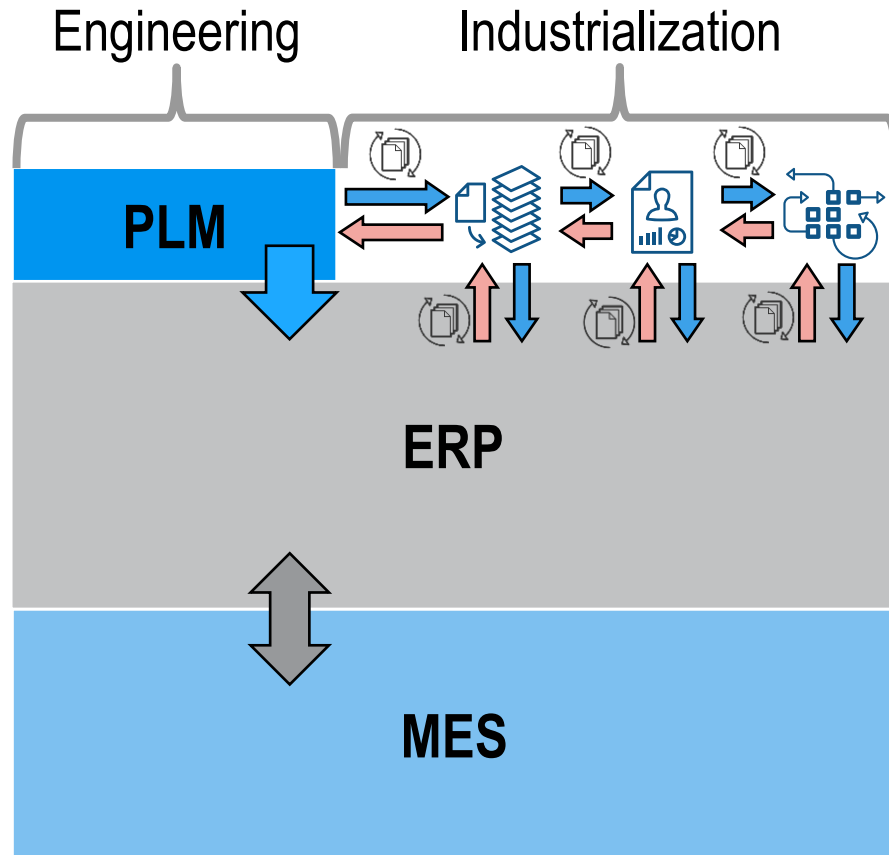
Benefits

Discussion and Q&A

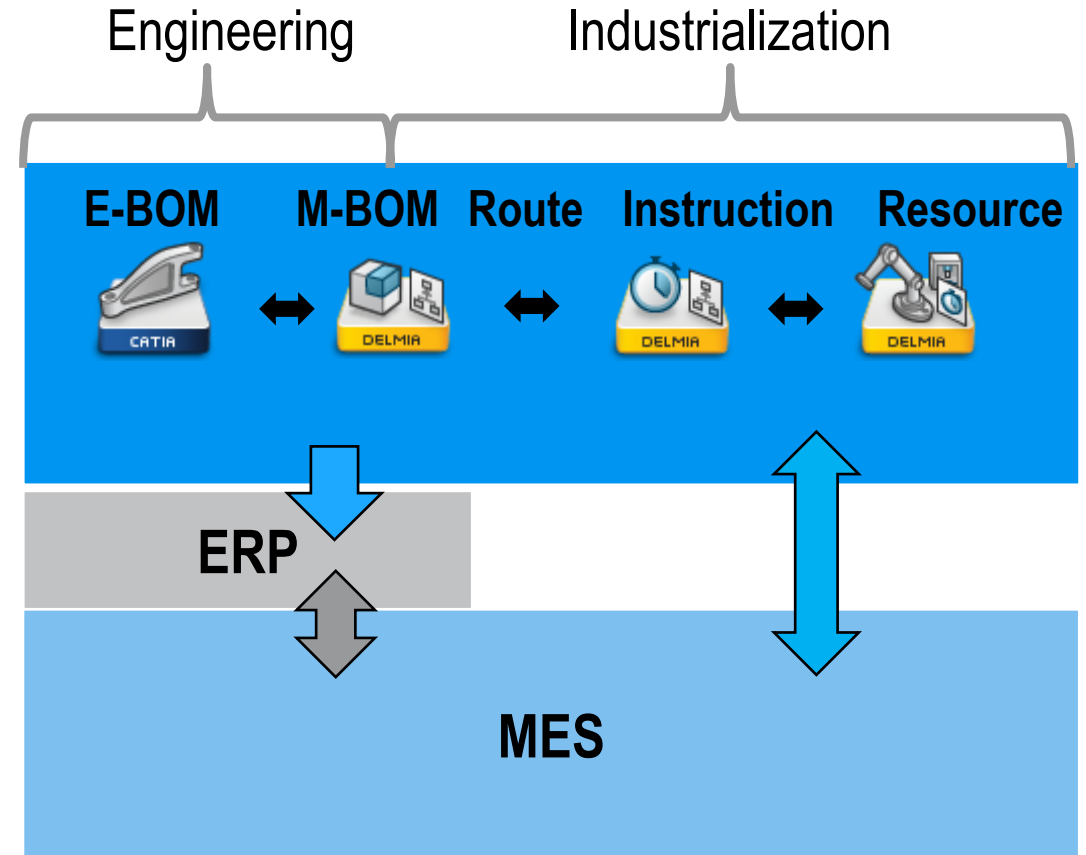
INTRODUCTION

From file based to model based approach – Interaction between PLM – MES - ERP

Yesterday & Today



Future



SOLUTION DEMONSTRATION



Product Owner



1
Product Management
(E-BOM,
Specifications,...)



Production Planner



2
Management of M-BOM,
Workplan, Resources,
Instructions,...



Production Operator



3
Execution of Production
Order



Production Supervisor



4
Full visibility of
Production, Traceability,
Issues, ...

5
Start of Continuous
Improvement Process



- Beamy A
 - Front_Part_Fabrics_Premium A (Front_Part_Fabrics_Premium.2)
 - Button_Premium A (Button_Premium.1)
 - Back_Part_Fabrics_Premium A (Back_Part_Fabrics_Premium.1)
 - AntennaSubstrate A (AntennaSubstrate.1)
 - Battery A (Battery.1)
 - Battery A (Battery.2)
 - Electrical A (Electrical.1)
 - Fastener A (Fastener.1)
 - PCB-MainBoard A (PCB-MainBoard.1)
 - Speaker_Left A (Speaker_Left.1)
 - Speaker_Right A (Speaker_Right.1)
 - Tweeter_Left_Back A (Tweeter_Left_Back.1)
 - Tweeter_Left_Front A (Tweeter_Left_Front.1)
 - Tweeter_Right_Back A (Tweeter_Right_Back.1)
 - Tweeter_Right_Front A (Tweeter_Right_Front.1)
 - Front_Shell A (Front_Shell.1)
 - Passive_Front A (Passive_Front.1)
 - Passive_Back A (Passive_Back.1)
 - Back_Shell A (Back_Shell.1)
 - Fastener A (Fastener.2)
 - Frame_Premium A (Frame_Premium.1)
 - Assembly_Projector_4K A (Assembly_Projector_4K.1)





DELMIA Apriso 2023 Portal

Name/Badge

Password
 








11/7/2024

New Order: 6917 : 3 - hop-83754613-00000077

Work Center: **Assembly Station 01**
Product: Beamy
SerialNo: SER18112
Quantity: 1 EA

11/7/2024

Scheduled Start Date:
2023-07-10 00:03

🕒 1 min

Scheduled Completion Date:
2023-07-10 00:04

1 / 1 - Screw Tweeters Back - 0%



BENEFITS

Operational and Strategic Benefits

Operational Benefits

- 1 **Reduced effort** in supplying shopfloor with accurate data
- 2 **Shorter Time-to-Market** through PLM-MES closed loop
- 3 Enabler for **continuous improvement** with field data in engineering
- 4 Combination as enabler for **scalability, growth** and data driven models

Strategic Benefits

- 1 DS is the long-term **leading player** in **PLM** and **MES** offering
- 2 Software is **owned by a single R&D department**
- 3 **Increased understanding** of the customer requirements
- 4 **Quicker issue** resolution and support by one organisation

THANK YOU FOR YOUR INTEREST

