The first phase of the SAP ME implementation in the Austrian pilot factory Industry 4.0 was completed on 04.10.2019 at the same time as the 10th anniversary celebration of Concircle Management Consulting GmbH. This project was started in July 2019 with the following goals and realized in three months by an agile implementation (from conception to go live):

1. 100% paperless production
2. Continuous data flow on horizontal and vertical level
3. Digitization of automated and manual workstations

Project Highlights

1. Vertically integrated, automated production
   a. Connection of processing cell, robot and driverless transport system (AGV) to SAP ME
   b. Direct communication with Zoller tool measuring machine
   c. Direct connection with SAP ERP S4 and SAP EWM System
2. Integrated SAP EWM (Extended Warehouse Management)
   a. Complete integration of SAP ME and SAP EWM systems (extended warehouse management)
   b. Integration of the EWM warehouse dashboard
   c. Complete mapping of the EWM process
3. Controlling FTS (Driverless Transport System)
   a. Directly from SAP ME through Web service and destination ID
4. Production control by means of SAP ME
   a. 100% paperless production
   b. 100% traceability
   c. Intelligent communication between cell and SAP ME (by pallet number)
5. Automatic traceability
   a. From SAP ME to SAP ERP and SAP EWM
6. Automated CNC program management
   a. Dynamic Program Management in SAP ME
   b. Direct program transfer to the cell
7. Automated tool control
   a. Querying the tool list from Zoller System

Concircle Management Consulting GmbH
Wienerbergstraße 11, 1100 Vienna / Austria * office@concircle.com * www.concircle.com
b. Query of the magazine stock of the cell

8. Quality inspection during production
   a. Complete integration with SAP ERP - QM module
   b. Transfer of inspection characteristics to SAP ME
   c. Feedback of the measured values in QM module

9. Integration of custom reporting UIs
   a. Plant Dashboard
   b. Machine Dashboard

10. Simple and mobile KVP process
    a. Continuous improvement through the standard 8D process
    b. Complete traceability and systematic processing

11. Very precise time recording and feedback
    a. Complete use of the conLABOR package

12. Use of the UI5 based Concircle Web-Shop
    a. Direct creation and release of customers and production orders in SAP ERP S4/HANA

13. Integration of Smartwatch into EWM process
    a. Smartwatch notifies the warehouse keeper for a new warehouse task

Process flow
Custom User Interfaces

Concircle UI5 Web-Shop

EWM Warehouse Dashboard

Machine Dashboard for Cell
Your contact partner:

Dr. Farhang Akhavei  
Tel: +43 676 6209480  
Email: farhang.akhavei@concircle.com