

From lean to INDUSTRY 4.0

We share what we practice, plan, test and successfully implement

Rapid digitalization has ensured that the future of the industry is connected



We started planning for the future 6 years ago

At our plants with Industry 4.0



9 Learnings From I4.0 Implementations



The journey into connected production requires a goal



Only measurable success is actual success



Network, customize, roll out



Focus on the people



Each challenge requires its own solution



Compatibility is the key



Lean is the engine, Industry 4.0 the turbocharger



Industry 4.0 is not a sprint, but a triathlon



Concepts must adapt to production, not to the paper

SUCCESSFUL 14.0 IMPLEMENTATIONS ACROSS FUNCTIONS



Success Factor

Technology

Application of Success Factor

A journey into connected production requires a goal

Digital Shop-floor Management The clear goal was to integrate a digital shop-floor management system into the existing production system

Results: Manual work for collection and preparation of the necessary data reduced from 320 to 34 hours per month

Lean is the engine and Industry 4.0 is the turbocharger

Multi-Product Line

Lean principles were applied to reduce wastages. With the addition of Industry 4.0 technologies, efficiencies reached the next level

Results: 10% increase in productivity 30% reduction in inventory

Focus on the People

Driverless Transport Vehicles By involving employees early on, acceptance was achieved. For successful change management, agile methods were used.

Results: Involving employees in the change helped smoothen the transformation and usher in a new way of thinking

Concepts must adapt to the production and not to the paper

Intelligent Transport management

While On Paper, using fixed schedule milkruns were to deliver efficiencies. On ground realities were different and thus RFID capture was used to collect Real-time data of material delivery.

Results: Increase of process efficiency of up to 15%

Only measurable success is an actual success

Energy Management

Real-time sensor data was used to evaluate energy consumption. Intelligent algorithms helped detect deviations and troubleshoot.

Results: Monitoring of the equipment conditions alone helped the Homburg plant achieve significant savings.

