



Darmstadt (visitable at short notice)

PROJECT MANAGEMENT FOR INDUSTRY 4.0

Proposition for manufacturing and logistics -
Optimized project management for Industry 4.0

SUMMARY

As part of the digital transformation, classic logistics processes will be superseded by mixed and augmented reality (AR) technologies. With the help of a hybrid project management approach, designed specifically for Industry 4.0 and evaluated and confirmed in cooperation with Darmstadt University of Applied Sciences and Schader Stiftung, existing processes have been replaced successfully with the introduction of an AR software solution.

CURRENT SITUATION

Process flows in industrial logistics can be optimized through the use of AR technologies. To ensure the optimum incorporation of ADE's technical expertise, Spot Consulting supported the SIPE 4.0 project management approach optimized for Industry 4.0. A major AR project was implemented successfully by combining the new project management approach with experience of logistics processes.

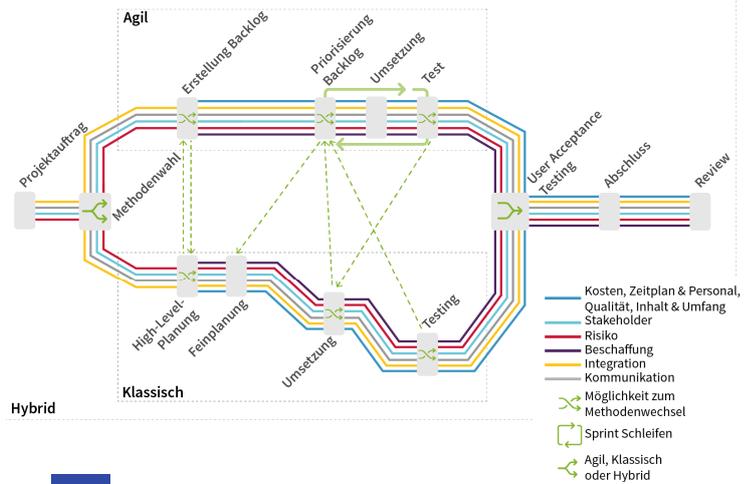
SOLUTION

Technically complex projects in the context of Industry 4.0 call for adapted, flexible project management. The following special features were decisive:

- Use of hybrid project management: during the complex implementation phase, the project drew on the benefits of agile and classic project management.
- Adapted communication management: external experience and expertise of associations and experts were integrated into the project at an early stage. In addition, a lessons-learned approach was adopted for the use of VR in logistics.
- Procurement 4.0: securing the ideal partners and resources for the project. Based on a large number of agreed criteria for Industry 4.0, a particularly decisive factor in the selection of suppliers was experience and thus the ability to implement such innovative projects in the area of mixed and augmented reality.

INDUSTRY 4.0 FEATURES

Hybrid project management for the needs and requirements of Industry 4.0 projects underpinned by cooperation and empirical values.



PARTNERS



PROJECT DESCRIPTION

At the start of the project, various (forecast) scenarios relating to central project framework conditions were drawn up in conjunction with all cooperation partners involved alongside the classic general project planning. On this basis, the lessons-learned method was used with the involvement of the project partners to prepare detailed planning regarding the software and hardware requirements. Parts of the project were implemented using conventional methodology, other parts with agile or hybrid methodology. To ensure the necessary flexibility at the same time, risks and problems arising over the course of the project were countered with a change in methodology. This was a key success factor particularly when it came to adapting the software solution, as it enabled the developers to take part in shaping the project in an optimum manner.

CONTACT

Paul Knissling
Spot Consulting GmbH
paul.knissling@spotconsulting.de

STANDARDIZATION APPROACHES

Modern project management with PMI and SCRUM is not currently being standardized.